



# Scientific Program

ROOM		THURSDAY 22 September 2022 /	MORNING	
Gaston Berger	9h - 9h30	<b>Opening Ceremony</b>		
	9h30 - 10h15	<b>Allard lecture: Luc Tytgat</b>		
	10h45 - 12h15	<b>Ernsting panel: Next pandemic preparation using COVID-19 top lessons learned</b>		
			COVID-19 Aerospace Medicine Risk Mitigation, Controversies and Lessons Learned; <b>K. Belland</b>	
			Next Pandemic Preparation using COVID-19 Top lessons learned - Airline Industry Perspective; <b>D. Powell</b>	
			Pandemic contingency planning in the airline setting: lessons from the coalface in risk perception and management; <b>R. Pombal</b>	
			Next Pandemic Preparation using COVID-19 Top lessons learned: Airline crew health and contact tracing; <b>B. Johnston</b>	
			Covid-19 and return to flying duties: an interesting experience of decision-making process from the aeromedical centers to the aeromedical authorities; <b>J. Monin</b>	
		Mental health aspects of COVID-19 and plans for future similar occurrences; <b>J. Wium</b>		
Louis Armand East		Not used		
Louis Armand West		Not used		

ROOM		THURSDAY 22 September 2022 / AFTERNOON	
Gaston Berger	14h - 15h30	<b>NATO WGAC: Why screen for heart disease? An international panel on non-invasive methods of screening for cardiovascular disease in aircrew</b>	
		Routine ECG screening for aircrew – CON; <b>N. Guettler</b>	Imaging Screening for Aircrew - CON; <b>J. d'Arcy</b>
		Aircrew screening with ECG; <b>R. Rienks</b>	CT Coronary Angiography in Aircrew – the best way to screen for coronary artery disease in 2022 and beyond; <b>E. Davenport</b>
		Imaging screening for aircrew - PRO; <b>T. Syburra</b>	
	16h - 17h30	<b>Pilot Peer Support Programmes: experiences and opportunities</b>	
		Pilot Peer Support Programs – History, Models, Strategies & Implementation; <b>Q. Snyder</b>	Bridging gaps between mental health assessment and support programs; <b>P. Tomasello</b>
		Pilot Peer Support Programs – Why, how and experiences; <b>A. Tuori</b>	Wellbeing = Performance = Safety; <b>W. Santilhano</b>
	17h45 - 19h	<b>EASA course Regulatory updates</b>	
		Mental Health: EASA approach & experience under EASA regulatory frame; <b>F. Rios Tejada</b>	EASA updates regarding the regulatory and research activities; <b>C. Panait</b>
		MESAFE: mental health for aviation safety; <b>P. Tomasello</b>	The use of the European Aero-Medical Repository (EAMR) to enhance flight safety; <b>D. Maher</b>
Louis Armand East	14h - 15h30	<b>Space medicine: Aeromedical concerns for an extreme environment</b>	
		A Review of Astronaut Journals: The Relationship between Work and Mental Health aboard the International Space Station; <b>V. Farsadaki</b>	Astronaut Playscapes: Inclusion of recreation as a design requirement for future crewed space systems; <b>L. Goument</b>
		Therapeutic Hypothermia – a Feasible Concept for Critical Care in Space? <b>S. Rosahl</b>	Managing cyber risk in space medicine: adapting to cyber security complexities in a dynamically redefined space medicine environment in low-earth orbit and beyond; <b>K. Johnson</b>
	16h - 17h30	Results of a 3-day pilot study to validate planetary prebreathe protocols using a 56.5 kPa 34% O <sub>2</sub> , 66% N <sub>2</sub> saturation cabin atmosphere; <b>A. Garbino</b>	Changes at the NASA-Kennedy Space Center, USA, to support America's new missions to the International Space Station and Moon; <b>PJ. Scarpa</b>
		<b>Sleep, sleep disorders and aircrew</b>	
		Risk factors of microsleeps during real long haul Flight. Interest of Miniaturized ambulatory EEG/EOG recorders; <b>F. Sauvet</b>	Continuous wakefulness of short duration: effects on psychomotor cognitive performance and subsequent sleep physiology; <b>NK. Tripathy</b>
	16h - 17h30	Prevalence of sleep disorders in aircrew members and risk of in-flight sleepiness; <b>J. Monin</b>	The determinants of sleep time in a large sample of French civilian and military aircrews; <b>N. Huiban</b>
		Excessive Daytime Sleepiness and Associated Factors in Military Search and Rescue Personnel; <b>A. Wagstaff</b>	Idiopathic hypersomnia: a rare treatable cause of excessive daytime sleepiness; <b>F. Bompaire</b>
	Louis Armand West	14h - 15h30	<b>Hypoxia &amp; hypobaria</b>
Initial Results of the U-2 Pilot Longitudinal Brain MRI Screening Program; <b>P. Sherman</b>			Oscillating inspired oxygen results in oscillating arterial oxygen partial pressures; <b>M. Decker</b>
Effects of Normobaric and Hypobaric Hypoxia on Electroencephalographic Spectral Power and Entropy; <b>E. Hutcheon</b>			Combined Altitude Depleted Oxygen (CADO) vis-à-vis Hypobaric Hypoxia: Efficacy in Hypoxia Indoctrination; <b>S. Purusothaman</b>
16h - 17h30		Individual vulnerability to hypoxia: relationship between sleep (quantity and quality) and high-altitude tolerance evaluated by hypoxic testing; <b>P. Fabries</b>	
		<b>Human performance &amp; aircrew</b>	
		NATO's jet fighter pilots with the application of learning machines, biofeedback, and psychophysics; <b>M. Pietrzyk</b>	Effects of whole body vibration on human contrast sensitivity function; <b>B. Bhowmick</b>
16h - 17h30		Human Performance in hot weather by pilots; <b>G. Schrago</b>	Expanding Participation in Flight & Space: Implications for Preparing those with Abnormal Physiology; <b>M. Cooper</b>
		Effect of US Army aircrew diagnoses and medications on operator status monitoring systems; <b>J. Crowley</b>	Airsickness in student pilots: a preliminary study of plasma biomarkers before and after desensitization; <b>C. Spanu</b>

ROOM		FRIDAY 23 September 2022 / MORNING	
Gaston Berger	8h30 - 10h	<b>Clinical aviation medicine: Cardiovascular concerns (FR session)</b>	
		Screening for silent myocardial ischemia in diabetic pilots. Experience of the CEMPN of Rabat with literature review; <b>M. Zerrik</b>	Cardiologic devices and fitness to fly: clinical case and review; <b>G. Schrago</b>
		Interest of Exercise Testing in the approach of coronary artery disease in private pilot; <b>C. Fattell</b>	After a stroke, the management of the fitness assessment in aircrew member; <b>G. Guiu</b>
		Aortic valve repair in severe regurgitation: a surgical alternative for aircrew combining aeronautical safety and good long-term medical prognosis; <b>F-X. Brocq</b>	
10h30 - 12h	<b>Clinical aviation &amp; travel medicine (FR session)</b>		
	Medical Causes of unfitness for Admission to Military Piloting; <b>H. Youssef</b>	Must pilots permanently quit flying career after treatment for lung cancer?; <b>A. Jedidi</b>	
	Travel health study in commercial aircrew members; <b>C. Brescon</b>	Assessment of the prevalence and impact of the Covid-19 epidemic in the French aircrew population in 2020; <b>M. Monteil</b>	
	Tobacco use and its cessation among flight crews; <b>S. Bisconte</b>	Medical evacuation of critically ill Covid-19 patients in New-Caledonia: An example of civilian and military cooperation; <b>A. Wojtecki</b>	
Louis Armand East	8h30 - 10h	<b>Mental health and addictions in aircrew</b>	
		The Role of Job Demands and Resources in Predicting Safety Culture and Well-being; <b>D. Schroeder</b>	Alcohol use disorder: clinical and aeromedical practice guidelines; <b>S. Delamater</b>
		Aeromedical guidance for waterpipe (hookah) smoking by aircrew - overview and safety considerations; <b>T. Schiemer</b>	Mental Health Program for Flight Crew in a non-regulatory context: Different Models Implemented in a Multinational Airline Company; <b>E. Ermel</b>
	Air rage & unruly pax: What should we do?; <b>T. Dao</b>		
	10h30 - 12h	<b>Space medicine: Long duration space travel and operations</b>	
		The Management of Extra-Terrestrial Pandemics and other 'Stardust' Maladies; <b>K. Myers</b>	Pharmaceuticals at low atmospheric pressure: implications for human space flight; <b>S. Roy</b>
Anaerobic Membrane Bioreactor Feasibility for Long Duration Surface Operations and Pharmaceutical Implications; <b>J. Marshall</b>		Hidden hazard: The impact of signal latency on crew health and performance; <b>R. Brougham</b>	
	The VR-MARS research project: a medical assistance architecture based on mixed reality for distant caregivers; <b>T. Seamus</b>	Automation: A help or a hindrance in spaceflight and remote medical settings? A case discussion using Point of Care Ultrasound (PoCUS); <b>K. Harris</b>	
Louis Armand West	8h30 - 10h	<b>Safety considerations of reduced crew operations</b>	
		Reduced crew operations and flight safety – Issues for radical interdisciplinarity; <b>A. Wagstaff</b>	Reduced Crew Operations – addressing the human centric design of the system – pilots' perspective; <b>JC. Lozano</b>
		Medical & Human Factors Considerations for Single Pilot Commercial Aviation Operations; <b>M. Antunano</b>	Single pilot versus two pilot commercial air transport operations: a comparison of accident causes; <b>A. Roelen</b>
	10h30 - 12h	<b>Human factors, safety and accidents in aviation</b>	
		Human Factors and Risk Mitigation In Air Racing; <b>T. Drekonja</b>	Analysis of serious incidents and accidents involving French state aircraft from a human factors perspective: results of a five-year retrospective study (2015-2019); <b>A. Vacher</b>
		Carbon monoxide exposure as a factor in United States aviation accidents: case series; <b>M. Watters</b>	Molecular pathology of hypoxia in aircraft accident investigation; <b>S. Rahaus</b>
	RNoAF inspection results point to a need to address aircrew fatigue with implementation of pilot self-monitoring; <b>B. Ray-Sannerud</b>	Speech Intelligibility over Radio Communications with Different COVID-19 Face Masks; <b>T. Schiemer</b>	

ROOM		FRIDAY 23 September 2022 / AFTERNOON	
Gaston Berger	14h - 15h30	<b>Clinical aviation medicine: Ophthalmology (FR session)</b>	
		Keratoconus and fitness to fly; <b>M. Delbarre</b>	Color vision: what selection in 2022? <b>M. Maréchal</b>
		Fourth congenital nerve palsy and fitness to fly; <b>F. Froussart</b>	Assessment of sensitivity to glare in flight personnel underwritten by refractive surgery versus non-operated healthy subjects in the same age group; <b>A. De Faria</b>
	16h - 17h30	<b>Clinical aviation medicine: From ENT to neuropsychology (FR session)</b>	
		Study of the occupational deafness of Tunisian military helicopter pilots; <b>I. Ben Dhia</b>	Epidemiology of pain in Algerian aircrews; <b>M.R Khelouf</b>
		Epidermoid cyst in cerebellopontine angle and fitness to fly; <b>J. Couturier</b>	Clinical case presentation as part of the psychological support offered to airline pilots following the application of the EASA note of 14 February 2021; <b>S. Clerel</b>
	Generalized Epileptic Seizure Induced by Stroboscopic Effect of Helicopter Blades; <b>L. Corgie</b>		
17h45 - 19h	<b>Thomas Pesquet's session</b>		

Louis Armand East	14h - 15h30	<b>Insulin and aircrew: Advances in control of diabetes</b>		
		Diabetes mellitus – the current European regulatory framework for aero-medical assessment of pilots and ATCOs; <b>C. Panait</b>	Seven years' experience of the ARA.MED.330 Protocol for the Certification of Insulin treated Diabetic Pilots in Europe; <b>D. Maher</b>	
		New glucose monitoring technology: aeromedical concerns for a safe insulin-dependent pilot in cockpits; <b>O. Manen</b>	An update on the new developments in semi and fully closed insulin pump systems for the treatment of type 1 diabetes mellitus, how safe is their use? <b>EMW. Eekhoff</b>	
		Hypoglycemic risk with present glucose control-related strategies; <b>F. Strollo</b>		
	16h - 17h30	<b>Advances in Cardiovascular Management: Implications on Aeromedical Decision Making</b>		
		Aeromedical Decision Making challenges in an unusual case of Hypercoagulopathy and Vasculopathy; <b>P. Masrani</b>	Check coronary angiography after stent placement: a need for relook; <b>YS. Dahiya</b>	
Acute STEMI in young fighter pilot with no cardiac risk factors - A case report; <b>S. Jeevarathinam</b>		Hypertrophic Cardiomyopathy: Scope To Review The Aeromedical Decision Making Paradigms; <b>P. Rastogi</b>		
	A case of trifascicular block with pacemaker implantation: Return to flying concerns; <b>K. Nageshwar Rao</b>			

Louis Armand West	14h - 15h30	<b>Space medicine: Space tourism aspects</b>		
		Transfer and retention of training in analog and virtual spaceflight environments; <b>E. Seedhouse</b>	Road to T-Minus Zero: A Narrative Review of Participant Preparation for Commercial Suborbital Spaceflight; <b>S. Sriharan</b>	
		Pediatric Health Considerations for Commercial Spaceflight; <b>A. Shrader</b>	Commercial Spaceflight Passenger Medical Screening: A Scoping Review Work-in-Progress; <b>K. Klingenberg</b>	
		Microgravity cardiopulmonary resuscitation, updates from terrestrial literature: Is it time for automatic chest compression devices in spacecraft?; <b>N. Reynette</b>		
	16h - 17h30	<b>ESA and NASA Approaches to Deep Space Exploration Medical Care</b>		
		Comparing and Contrasting Medical Care on the International Space Station and Artemis Missions: The Challenges of Exploration Environments; <b>A. Anderson</b>	A Comprehensive Medical System Concept for Human Exploration Missions; <b>A. Golemis</b>	
Medical System Design for Space Exploration Missions Using a Probabilistic Risk and Trade Space Analysis Tool; <b>B. Easter</b>		New Medical Technologies to Enable Human Space Exploration Missions; <b>S. Kaduk</b>		
	A human system failure approach to medical planning for the Lunar Gateway; <b>P. Hodkinson</b>			

ROOM		SATURDAY 24 September 2022 / MORNING	
Gaston Berger	8h30 - 10h	<b>Clinical aviation medicine: From current to particular situations</b>	
		Self-medication among fighter pilots: how common is this practice?; <b>T. Chiniard</b>	Assuring Transgender Equity in Air Sports; <b>G. McCarthy</b>
		Relevance of incidental brain cavernomas in aerospace medicine; <b>L. Ostrop</b>	Pregnancy in Military Aviation: A Hazard Risk Assessment; <b>R. Mayes</b>
		Challenges of medical certification with head and neck cancers; <b>K. Ojha</b>	
	10h30 - 12h	<b>Fatigue and vigilance in aircrew</b>	
		Circadian adjustment in commercial airline pilots during and after being grounded due to Covid-19; <b>A. Maij</b>	Effects of modafinil and caffeine on aviator's vigilance after a limited period of sleep deprivation: First results; <b>Y. Wingelaar-Jagt</b>
		Fatigue Associated with Military Flight: Near Infrared Cortical Spectroscopy Measurements May Predict Vulnerability Towards Cognitive Fatigue; <b>E. Damato</b>	Assessing and approving operational medications for military aircrew - What's required and an illustration of how it works; <b>J. Caldwell</b>
	Effect of Physical Exhaustion on Basic Parameters of Voice; <b>C. Santoso</b>		
Louis Armand East	8h30 - 10h	<b>AEROMEDEVAC and infectious/Covid diseases...and policy</b>	
		Aeromedical Transport of Patients with (Re-) Emerging Infectious Disease: Moving forward with Lessons-learned from COVID-19; <b>A. Sobel</b>	Health repatriation from WuHan: Why is this a challenge?; <b>F. Topin</b>
		Collective aero medical evacuations using the MoRPEE and MEROPE systems in France during the COVID 19 pandemic; <b>C. Nguyen Dac</b>	Medical evacuation during Covid19 outbreak in March 2020: A new mission for army aviation flight surgeon; <b>M. Brunot</b>
		Aeromedical dispatch – Is there agreement between clinician groups on appropriateness of case selection for Helicopter Emergency Medical Services?; <b>L. McNamee</b>	
	10h30 - 12h	<b>Space medicine: From the beginning to nowadays</b>	
		Metabolic Legacy of Apollo 17; <b>P. Rambaut</b>	Bone Microstructural Changes Following Spaceflight and Recovery on Earth; <b>C. Mielczarek</b>
		The Deaf Right Stuff; <b>J. Allen</b>	Flight Surgeons and the Space Domain in NATO; <b>J. Frassini</b>
	Physiological responses to centrifuge-simulated suborbital spaceflight; <b>T. Smith</b>	The Canadian Space Agency's Health Beyond Initiative; <b>T. Richmond</b>	
Louis Armand West	8h30 - 10h	<b>Accelerations and ejections</b>	
		Designing restraint system for simulating lateral acceleration; <b>P. Goel</b>	Standardisation of Post-Ejection Reporting: A Questionnaire Approach; <b>C. Bilger</b>
		What is MOD pilot experience of the High Gz Training Facility at RAF Cranwell and are there factors that can predict it?; <b>J. Hynes</b>	Head impacts sustained during rocket-assisted escape: review of UK fast jet ejections 2002 – 2022; <b>A. Mackay</b>
		An innovative and progressive pedagogical approach for aeromedical centrifuge training based on active trainees' participation; <b>P. Fabries</b>	
	10h30 - 12h	<b>Refresher course</b>	
		Welcome; <b>T-E. Strand</b>	Progress in the field of pilots on insulin; <b>F. Strollo</b>
		Healthcare avoidance and underreporting in aeromedical examination; <b>B. Hoffman</b>	News from regulators; <b>F. Rios Tejada</b>
	Obstructive sleep apnea; <b>N. Ahmed</b>	Discussion; <b>T-E. Strand</b>	

ROOM		SATURDAY 24 September 2022 / AFTERNOON		
Gaston Berger	14h - 15h30	<b>Mental workload and health: experimental psychology</b>		
		Factors contributing to the mental load of trainee military helicopter pilots: a comparison of instructors' and trainees' views; <b>J. Albentosa</b>	Interest of non-invasive brain stimulation (rTMS, TDCS) for pilots with an anxiety or depressive disorder; <b>S. Mouchabac</b>	
		Interest of pharmacogenetics testing to prescribe antidepressants for pilots; <b>E. Saguin</b>	New diagnostic and therapeutic approaches: perspective of an expert in aeronautical psychiatry and psychology; <b>C. Gorin</b>	
		Repeated exposure to viewing war images: impact on the mental health of Reaper drone operators; <b>M. Léon</b>		
	16h - 17h30	<b>Clinical aviation medicine: From screening to assessment</b>		
		Reframing aeromedical screening: An international comparison study of healthcare avoidance behavior due to fear of aeromedical certificate loss in 5,168 US & Canadian pilots and what it tells us about aeromedical screening of the future; <b>WR. Hoffman</b>	USAF pilot applicant disqualifying conditions and waiver rates for FY21 USAF pilot; <b>H. Ortega</b>	
		How to overcome limitations of cardiovascular risk estimation tools; <b>R. Maire</b>	Design, Testing, and Implementation of the USAFSAM Aeromedical Consult Service Medical Risk Assessment Matrix (AMRAM); <b>R. Mayes</b>	
Incidents of aircrew due to coronary artery diseases: Has genetic testing an adding benefit?; <b>D. Bron</b>				

Louis Armand East	14h - 15h30	<b>Space medicine: Clinical considerations</b>		
		Central Nervous System (CNS) Neoplasms in Microgravity; <b>L.J. Kolaparambil</b>	Structural changes in Brain MRI due to Head Down Tilt Bed Rest - Systematic Review and Future Research Guidelines; <b>G. Torrinha</b>	
		Preliminary study on the feasibility of exploring the female pelvic vascularization during microgravity using the dry immersion model; <b>D. Luton</b>	Retinal diagnostics in spaceflight and extreme environments; <b>C. Stern</b>	
		Malignancy and space medicine, a report of a comprehensive systematic scoping review; <b>H. Akbarialiabad</b>		
	16h - 17h30	<b>AEROMEDEVAC and operational considerations</b>		
		Search and Rescue mission performed by the French army from 2015 to 2019; <b>O. Thabouillot</b>	Casa MEDEVAC proof of concept: ten years of activities in the Sahel; <b>H. Marsaa</b>	
		Level of Onboard Care for Critical Patients: Analysis of the French Armed Forces Air Medical Evacuations From the Sahel Since 2013; <b>B. Arnoux</b>	Continuous tissue oxygen monitoring during aero medical evacuation in a porcine model; <b>F. Arnaud</b>	
Transfusion of labile blood products during forward medical evacuation mission; <b>JP. Freiermuth</b>				

Louis Armand West	14h - 15h30	<b>Infectious diseases and aircrew</b>		
		Return to work aspects in Covid-19 affecting airline crewmembers; <b>P. Alves</b>	Inflight transmission of SARS COV 2 from presymptomatic passengers to cabin crew: level of the risk; <b>C. Cardines</b>	
		Aeromedical protocol for return to flight after a malaria infection; <b>W. Haggai</b>	Increasing number of malaria disease in airline-crews flying to Tanzania: causes and protective measures for crews at Swiss International Airlines; <b>E. Wanner</b>	
		HIV infection and return to flying; <b>F. Alli</b>		
	16h - 17h30	<b>Occupational and travel medicine in aviation</b>		
		Long-term sickness in Pilots and Cabin Crew: the positive impact of a multi-disciplinary team; <b>R. Pieterse</b>	Low back pain and related disability in helicopter pilots: a survey of prevalence and risk factors; <b>G. Stylianides</b>	
		Case study of cabin air quality events; <b>R. Gudmundsson</b>	Initiating Optimization of the Human Weapons System: A New Fighter Pilot Enterprise; <b>A. Turner</b>	
Biological Monitoring in aircrews who experienced a Fume and Smell Event (FUSE); <b>J. Hedtmann</b>		How Duty Rosters and Stress Relate to Sleep Problems and Fatigue of International Pilots; <b>M. Venus</b>		

**POSTERS: THURSDAY 22 September 2022****Covid and aircrew**

1- Transit crisis: operational impact of the COVID-19 pandemic on BA 123 squadrons; **P. Aloird**

3- Safety Measures in COVID-19 Situation: RMAF Experienced; **S. Jaaman**

2- The COVID 19's control at Niamey Air Base; **P. Aloird**

**Human performance & Extreme environments**

4- Aircrew Confidence and Training Intervals in Helicopter Underwater Egress Training; **C. Milam**

6- "To Be or To Do": John Boyd and Effective Action - Relevance Persists; **M. Cooper**

5- Human challenges to adaptation to extreme professional environments: a systematic review; **B. Lefranc**

**Hypoxia, hypobaria and accelerations**

7- Acute hypobaric hypoxia affects reaction times but not accuracy in an associative memory task; **M. Gatti**

10- Genetic vulnerability to hypoxia: association between HMOX2 polymorphism and chemosensitivity evaluated by hypoxic testing; **P. Fabries**

8- Age-related SpO<sub>2</sub> Desaturation During High Altitude Hypobaric Exposure; **S. Ferguson**

11- Fluid Balance of Male Hellenic Air Force Pilots During Flight; **A. Koumpoulas**

9- Cardiorespiratory responses to voluntary hyperventilation during normobaric hypoxia; **J. Kanhai**

**Sleep, fatigue and vigilance**

12- Habitual caffeine consumption alters attentional performance during total sleep deprivation; **M. Quiquempoix**

14- Vigilance states recordings using a connected device; **M. Guillard**

13- Impact of boarding on the aircraft carrier Charles de Gaulle on navy pilots' sleep parameters. Interest of a connected headband for sleep recording; **F. Sauvet**

**Clinical aviation medicine**

15- Causes of unfitness in French military airmen; **G. Guiu**

18 - Post vaccinal acute disseminated encephalomyelitis after COVID vaccine, case report and clinical evolution; **F. Bompaire**

16- Narcolepsy type 1 and aeronautical activity; **H. Echchachoui**

19- Predicting Neuro-Incapacitation in Flight Personnel: New Approaches and Challenges; **E. Boudreau**

17- CBD and flight safety; **C. Dumonteil**

**Space medicine**

20- Braiding: A novel technology to facilitate space/ground collaboration under signal latency; **R. Brougham**

22- Enhancing international exploration platforms and analog definition program; **A. Sobel**

21- Remote Monitoring of emotional state during space mission- AX-1 mission experience; **Y. Frenkel Nir**

23- Space Integrative Medicine Model (SIMM): an approach to redefining Space Medicine; **V. Farsadaki**

## POSTERS: FRIDAY 23 September 2022

### Extreme environments

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| 24- Team Dynamics and Coping Strategies in Extreme Environments; <b>R. Cianfarani</b> | 25- High Altitude Parachuting and the race to 35,000 ft; Is NATO ready?; <b>J. Dalebozik</b> |
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### Mental health & addictions

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| 26- Alcohol and Drug testing Programs in Civil Aviation: A Review of the Brazilian Regulation; <b>E. Ermel</b> | 27- HIMS - 48 years of safety and sobriety in professional pilots; <b>Q. Snyder</b> |
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### Clinical aviation medicine

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| 28- In-flight incapacitation of dysautonomic origin; <b>M. El Ghazi</b>  | 30- Dilation of the ascending aorta in civilian 1st class pilots: when it is time to worry?; <b>S. Izzo</b>   |
| 29- Malignant Melanoma in a High Time Airline Pilot; <b>E. Prochazka</b> | 31- USAF Operational Based Visual Assessment (OBVA) laboratory Automated Vision Test: the future comprehensive, standardized, computerized, vision test development and results; <b>S. Hadley</b> |

### Occupational and travel medicine

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| 32- Association Between Total Flight Hours, Occupational Risk Factors, and Individual Behavior with Cardiovascular Disease Risk in Indonesian Civilian Pilots; <b>MS. Kristina</b> | 34- How to Handle Retinoschisis in the Military Aviation Environment? <b>D. Hering</b>                               |
| 33- Evaluation of changes in lipid indexes of blood serum in the course of special training for cadet-pilots; <b>Z. Wochnyński</b>   | 35- The Risk Factors of Recurrent Positive Treadmill Test among Civilian Pilots in Indonesia; <b>IS. Widyahening</b> |

### Space medicine

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| 36- Spaceflight Omics: Utilisation in a Personalised Precision Medicine Approach to Optimise Astronaut Health for Exploration Class Missions; <b>N. Purvis</b> | 41- Dry immersion – An innovative ground-based model for studying the physiological effects of weightlessness; <b>A. Pavy le Traon</b> |
| 37- The Role of Induced Pluripotent Stem Cells in Improving Radiation Risk Assessment Protocols for Deep Space Missions; <b>C. Taglietti</b>                   | 42- Inspiring The Artemis Generation: Lessons Learned Presenting Rockest Science and Human Physiology; <b>JF. Sisante</b>              |
| 38- 5-Day Dry Immersion-Induced Neuro-Ophthalmological Changes in Healthy Females; <b>M. Kermorgant</b>  | 43- Mental Health Difficulties and Countermeasures in Space Exploration; <b>E. Garcia Torrents</b>                                     |
| 39- Development of a Virtual Reality System to Assess its Impact on Human Physiology During Hypogravity Simulations; <b>R. Gessinger</b>                       | 44- Project Cheiron: A Framework for the Evaluation of Quality Care Provision in Long Duration Space Missions; <b>E. Frost</b>         |
| 40- Telemedicine in Space: Past, Present, and Future; <b>J. York</b>   |  |

### Training course & education in aerospace medicine

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| 45- Creation of an Online Aerospace Medicine Course for Medical Students; <b>N. Girgla</b>   | 47- Education in aerospace medicine in Brazil from medical undergraduate to postgraduation; <b>VE. Ramos Melhado</b> |
| 46- Engineering and medical collaboration for education in human-spaceflight: The University of Colorado medicine in space and surface environments course; <b>A. Anderson</b> |  |



**POSTERS: SATURDAY 24 September 2022****Mental health & addictions**

48- Association Between Flight Hours and Risk of Depression in Indonesia Civilian Cabin Crew during COVID-19 Pandemic; **AB. Sutrisno**

50- The Personality Trait of Neuroticism in a Clinical Sample of USAF Pilots; **M. Malcein**

49- Psychophysical determinants of coping with stress during the first solo flight of an aviation university students; **M. Otremba**

51- Interactions of International Pilots' Fatigue, Symptoms of Depression, Anxiety, Common Mental Disorders and Wellbeing; **M. Venus**

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