

Scientific programme XII ISMM World Congress 2018

Mountain Medicine in the Heart of the Himalayas

PROGRAM BOOKLET

	WEDNESDAY 2	WEDNESDAY 21 NOVEMBER			UHT	THURSDAY 22 NOVEMBER				FRIDAY 23 NOVEMBER	NOVEMBER			SATURDAY 24 NOVEMBER	NOVEMBER	
LOCATION		LOCATION	LOCATION	MAIN SESSION	LOCATION	PARALLEL SESSION	LOCATION	PARALLEL SESSION	LOCATION	MAIN SESSION	LOCATION	PARALLEL SESSION	LOCATION	MAIN SESSION	LOCATION	PARALLEL SESSION
FOYER 10:00-17:00		REGISTRATION	MOUNT	MOUNTAIN EMERGENCY MEDICINE		⊿ HDIH PHYSI	HIGH ALTITUDE PHYSIOLOGY		HOIH	HIGH ALTITUDE PHYSIOLOGY	MOUNTAI	MOUNTAIN EMERGENCY MEDICINE	-	TRAVEL MEDICINE	EXP	EXPEDITION MEDICINE
						PRACTICAL WORKSHOP				PRAC	PRACTICAL WORKSHOP	do		PRACT	PRACTICAL WORKSHOP	Q
			Meeting point: REGAL I 07:00-08:00			Technology in search and rescue S McIntosh / NN Sherpa	U		Meeting point: REGAL I 06:30-08:00	POCUS - HAPE and HACE L Pratali / G Giardini	Meeting P point: REGAL I 07:00-08:00	POCUS - Mountain emergency medicine L Keyes / M Brodmann Maeder / D Moens	Meeting point: REGAL I 07:00-08:00	How to manage a base camp clinic S Baniya / S Adhikari / S Dawadi / S Bhandari	nage a base cai ikari / S Dawad	np clinic i / S Bhandari
						JOINT SESSION				OPEN	opening key lecture	JRE		OPEN	opening key lecture	RE
			REGAL I 08:00-09:00	Himalayan Rescue Associe	n tion and Mou	Mountain rescue in the Himalayas Himalayan Rescue Society of Nepal	as al - G Bashyal	- G Bashyal / S Adhikari / B Systermans	REGAL I 08:30-08:55	High altitude r	le medicine in the Himalayas B Basnyat	e Himalayas	REGAL I 08:30-08:55	The history of	The history of travel medicine in Nepal D Shlim	le in Nepal
				Session A - Science update		Session A - Science update				Session A - Science update		Session A - Science update		Session A - Science update		Session A - Science update
			REGALI 09:00-10:30	Trauma in mountain rescue J Ellerton / R De Decker	REGAL II 09:00-10:30	Genetics and pathophysiology C Beall / S Bing			REGALI 09:00-10:30	High altitude research: new scores, tools and protocols P Hackett	REGAL II 09:00-10:30	Special search and rescue operations F Elsensohn	REGALI 09:00-10:30	Biblical illnesses: tuberculosis and typhoid in South Asia B Basnyat	REGAL II 09:00-10:30	Research on expeditions JP Richalet
	International societies meeti	cieties meetings	l,	Session B - Science update		Poster presentations				10:30-11:00 COFFEE BREAK Session B - Science update	Γ	Poster presentations		Session B - Meet the experts	Г	Session B - Case reports
CRYSTAIL HALL 11:00-15:00	UIAA meeting	SENATE ICAR MEDCOM informal 11:00-15:00 meeting	REGALI 11:00-12:30	Accidental hypothermia and cold injuries P Paal	CRYSTALL HALL 11:00-12:30	Poster presentations S Pant / S Raj Pant			REGALI 11:00-12:30	eases	CRYSTALL HALL 11:00-12:30	Poster presentations S Dawadi / S Acharya	REGALI 11:00-12:30	Traveller's diarrhea/medicine in Nepal B Basnyat	REGAL II 11:00-12:30	Case reports K Zafren
				Session C - Science update		Session C - Science update			12:3	12:30-13:30 LUNCH BREAK Session C - Science update	ſ	Session C - Science update		Poster presentations	Γ	Session C - Meet the experts
			REGALI	Avalanche rescue	REGAL II	<u>د</u>	CRYSTAL	New research studies in high altitude physiology in Asia I		Chronic mountain sickness	REGALII	Cardiopulmonary	CRYSTAL HALL		REGAL II	Special populations going to high altitude
			13:30-15:00	G Strapazzon / S McIntosh	13:30-15:00	G Par	14:00-15:30		13:30-15:00	E Swenson / RL Ge	13:30-15:00	K Oshiro / Q Pasha	13:30-15:00	S Adhikari / J Yadav	13:30-15:00	G Rodway / D Jean
	International societies meeti	cieties meetings		Session D - Case discussion		Session D - Meet the experts				Session D - Case discussion		Session D - Meet the experts		Session C - Science update		Session D - Science update
SENATE 15:00-17:00	ISMM Executive Committee meeting		REGAL I 15:00-16:30	Case discussion K Zafren / R Paterson	REGAL II 15:00-16:30	Drug therapy and prevention of acute mountain sickness B Basnyat / K Thapa	CRYSTAL HALL 15:30-17:15	New research studies in high altitude physiology in Asia II Q Pasha	REGALI 15:00-16:30	Case discussion A Luks	REGAL II 15:00-16:30	Meet the experts M Neupane / K Thapa	REGALI 15:00-16:30	Pilgrims's and other medically disadvantaged populations at high altitude K Zafren / S Baniya	REGAL II 15:00-16:30	Extreme sports at high altitude and in the wilderness H Gatterer / M Faulhaber
,						KEY LECTURE			16:3	16:30-17:00 COFFEE BREAK COMBINED SE	SESSION AND PUBLIC EVENT	BLIC EVENT		ç	JOINT SESSION	
	Welcome spee B Basnyat / H Brugger / S B	Welcome speech B Basnyat / H Brugger / S Baniya / K Dixit	REGALI 17:00-18:00			Research and methodology E Swenson / H Brugger / R Turner	5		REGALI 17:00-19:00	Disaster preparedness in the Himalayas (ICIMOD and UNDP) G Cologna (moderator) D Molden / MB Thapa	ess in the Himalayas (G Cologna (moderator D Molden / MB Thapa	s (ICIMOD and UNDP) or) pa	REGALI 17:00-18:30	P Hack	Telemedicine P Hackett / D Hillebrandt	ndt
REGALI 17:00-18:30	Himalay	sociation	U											CLOS	CLOSING CEREMONY	*
	Altitude and attitude K I	titude in a warming Himalaya K Dixit	REGALI 18:00-18:30			DiMM Course in Nepal M Neupane							REGAL I 18:30-18:45	Ğ	Closing ceremony MMSN	
REGAL BALLROOM 19:30		WELCOME APERITIF	REGAL I 19:00-20:00			ISMM General Assembly meeting	ß		REGAL BALLROOM 20:00	Talk by I	y Dawa Steven Sherpa	herpa				

GARDEN 20:30

1. Welcome message

In the tradition of the last 24 years, the biennial congress will continue to focus on high altitude medicine, which is an important flagship of the International Society for Mountain Medicine. While originally this event focused mainly on science and research aspects of high altitude medicine, for some years now the congress objectives have extended. ISMM aims to offer a comprehensive overview of ongoing topics of interest in mountain medicine, whilst also extending the program by adding a dedicated mountain emergency medicine component (in collaboration with the International Commission of Mountain Emergency Medicine ICAR MEDCOM and the Wilderness Medical Society WMS). This renewed program will also include practical workshops related to trekking, expedition medicine, and clinical education. In the last few years, enrolment in Mountain Medicine Diploma courses has shot up internationally, and the faculty feels there is a need for better unification, coordination and quality management. Moreover, nowadays travelling mountaineers should be aware not only of the risks of global epidemics such as SARS, Zika and Ebola, but also tropical diseases and protective measures for common problems like travelers' diarrhea and fever in the traveler. For these reasons, the ISMM World Congress 2018 has adopted many new fields of interest.

For the first time, the congress will be held in Kathmandu, hosted by an active group of young physicians gathered in the Mountain Medicine Society of Nepal. The program includes many aspects of mountain medicine, from science through to expedition medicine. It gives the attendants the opportunity to combine this unique congress with a journey to the highest peaks of the planet, to a land of miraculous peoples, cultures and landscapes.



Dr. Hermann Brugger President, International Society for Mountain Medicine Head, Institute of Mountain Emergency Medicine, EURAC Associate Professor, Innsbruck Medical University

Dr. Buddha Basnyat President, Mountain Medicine Society of Nepal Medical Director, Himalayan Rescue Association Past President, ISMM & UIAA MedCom

2. International committee



Prof. Dr. Buddha Basnyat









Dr. Santosh Baniya

Dr. Maniraj Neupane

Miriam Gottardi

Diane Martinelli

2.1 Local organizing committee



Dr. Santosh Baniya Local organizing committee chair



Dr. Jayant Yadav



Dr. Prakash Kharel



Dr. Suvash Dawadi







Dr. Suman Acharya

Dr. Sushil Pant



Dr. Subarna Adhikari



Dr. Samriddha Raj Pant

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3. General information

3.1 Practical information

• Help desk at airport

An airport help desk will be present in Tribhuvan International Airport. Our volunteers will be present at the airport for any help needed. The help desk will remain open between 1 pm and 11 pm on 20th and 21st November.

• Registration desk

Registration desks are located in the atrium of the Yak and Yeti Hotel (ground floor). Registration is from 11 am to 5 pm on the 21st November. Conference kits will be provided during registration. Registered participants have access to all program sessions, the welcome aperitif, coffee breaks and lunch. The gala dinner is not included in the registration fees and requires pre-registration and payment.

• Welcome speech and welcome aperitif

All registered participants are invited to the welcome speech and welcome aperitif on 21st November. The official program will be held at Regal Hall from 5 pm and will be followed by a welcome aperitif in Foyer hall.

• Refreshments

Morning and afternoon coffee breaks will be served at the Foyer Hall, 10:30 am-11 am and 3:30 pm-4 pm respectively.

• Lunch

Lunch will be served on 22nd, 23rd and 24th November, 12:30 pm-1:30 pm, at the Yak and Yeti Hotel garden. Lunch coupons are necessary for lunch.

• Gala Dinner

The gala dinner will be served at Hotel Yak and Yeti on Friday, November 23, 2018. Gala dinner tickets can be purchased at the time of registration.

• CME accreditation

For information on accreditation of this event at the national and international level, please consult the website or contact the congress secretariat.

• Badge

Upon registration, you will receive your badge and conference kit. Please wear your badge during all conference sessions and social events.

Sessions

Please make sure to be in the session halls on time, as all sessions will begin as per schedule. Changes in the program will be announced on the announcement slides inside the session halls.

• Slide center

Speakers must submit their presentation in electronic form to the technician on site at the slide center, well in advance of their session. This is the only way to access your presentation in the conference rooms.

• Certificate of attendance

Please note that certificates of attendance will not be printed onsite. Certificates will be issued to all attendees electronically after the conference and forwarded to their email. Certificates for poster/oral presentations will be issued upon request after the conference.

• Mail/ messages/ medical assistance/ lost and found

Please refer to conference secretariat for assistance

• Smoking policy

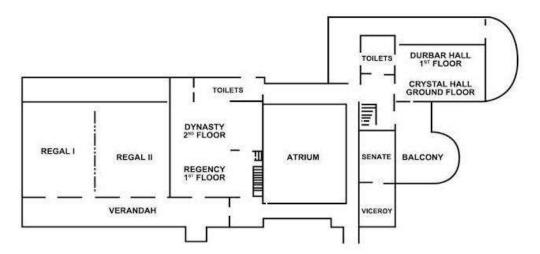
Smoking is not allowed inside the session halls, exhibition area and restrooms. Your compliance is appreciated.

• Conference secretariat

Please do not hesitate to contact the secretariat for any additional information or assistance.

Maharajgunj, Kathmandu, Nepal Phone: +977 9813273171, +977 9813273109 Email: ismm.wc2018@gmail.com Website: www.ismm2018.org

• Floor plan and map of congress venue



3.2 About ISMM World Congress

The International Society of Mountain Medicine (ISMM) was founded in 1985 by the medical commission of the Union Internationale des Association d'Alpinisme (UIAA MEDCOM). The society aims to bring together physicians, scientists and allied professionals interested in mountain medicine, to encourage research on all aspects of mountains, mountain people and mountaineers and to spread scientific and practical information about mountain medicine around the world.

The ISMM world congress series has been held approximately every two years since 1986 in mountainous regions around the globe, including La Paz in Bolivia, Matsumoto in Japan, Arica in Chile, Xining and Lhasa in China/Tibet, Aviemore in Scotland, Arequipa in Peru and Taipei in Taiwan. We are pleased to welcome XII World Congress for the very first time to the heart of the mountains in Nepal.

3.3 Congress Partners

- International Society of Mountain Medicine (ISMM)
- Mountain Medicine Society of Nepal (MMSN)
- Institute of Mountain Emergency Medicine Eurac Research
- Himalayan Rescue Association (HRA)

3.4 Dissemination and international networks

Our dissemination network includes both research and clinical institutions worldwide as well as leading medical, alpine and rescue associations.

The XII ISMM World Congress on Mountain Medicine has already been announced at several medical and mountain medicine congresses in Europe and Northern America. It is supported by some of the leading mountain medicine and mountaineering organizations around the world.

- International Commission for Alpine Rescue, Medical Commission (ICAR MEDCOM)
- International Mountaineering and Climbing Federation, Medical Commission (UIAA MEDCOM)
- Wilderness Medical Society (WMS)
- International Mountain Summit (IMS)

3.5 Important note to the chairpersons, speakers, and the audience

All speakers are requested to send their presentations preferably 24 hours before, or at the latest by 3 hours before their presentation schedule, to ismmpresentations@gmail.com We also request all speakers and chairpersons to download any materials they need for their presentation beforehand, as there shall be no Wi-Fi connection at the conference venue.

This ISMM World Congress meeting in Nepal is very serious about adherence to time. In fact, the organizers hope that the meeting will be defined by chairpersons ensuring the speakers' absolute adherence to their allotted time. The chairperson may "pull the plug" if a speaker continues to speak beyond their allotted time. When there are 3 minutes left in the talk, it is strongly recommended that the chairperson rings a warning bell to make the speakers aware of the time remaining. Speakers are strongly

recommended to use their smartphones to time themselves, if that helps them. The chairpersons should please remind the speakers about these points just prior to the session.

These steps are crucial to ensure that all the many young participants in the meeting appreciate the importance of time management, something that is completely overlooked and under-emphasized in South Asia.

Along this vein, it is important that the chairpersons please instruct the audience that only one question will be allowed per person, so that others in the audience may have a chance to ask questions too; and kindly to please keep the questions short and crisp.

4. Faculty

4.1 Scientific Committee

Name	Affiliation
Basnyat Buddha	MD, MSc, FACP, FRCP Medical director of HRA Director of Oxford University Clinical Research Unit-Nepal
Beall Cynthia	PhD Professor of Anthropology Case Western Reserve University
Brodmann Monika	MD, MME Senior Researcher Eurac Research, Institute of Mountain Emergency Medicine, Bolzano, Italy
Brugger Hermann	MD Head of Institute of Mountain Emergency Medicine Associate Professor Innsbruck Medical University President International Society for Mountain Medicine ISMM
Dawadi Suvash	MDGP, MBBS, DiMM Mountain Medicine Society of Nepal
Ellerton John	MRCGP, UIAA/ICAR/ISMM DiMM General Practitioner and Mountain Rescue Doctor, Lake District, England; Medical Officer Mountain Rescue England and Wales 2002-12 President of ICAR Medcom (from October 2017) member of the administrative group for the UIAA/ICAR/ISMM Diploma in Mountain Medicine
Elsensohn Fidel	MD Past President of ICAR MEDCOM (from October 2017)
Gatterer Hannes	PhD Senior Researcher Eurac Research, Institute of Mountain Emergency Medicine, Bolzano, Italy
Ge Ri-Li	MD, PhD, Research Center for High Altitude Medicine, Qinghai University, China
Hackett Peter	MD Altitude Research Center University of Colorado School of Medicine
Hanaoka Masayuki	First Department of Medicine Shinshu University School of Medicine S ON MOUNTAIN MEDICINE

loon Dominique	MD
Jean Dominique	MD Readiateira and Infactions Diseases
	Paediatrics and Infectious Diseases
	Centre for Prenatal Diagnosis
	Grenoble University Hospital, France
Keyes Linda	MD, FACEP
	Assistant Clinical Professor of Emergency Medicine
	University of Colorado and Attending Physician
	Boulder Community Health
Leon-Velarde Fabiola	DSc
	Rector. Professor of Physiology
	Department of Biological and Physiological
	Sciences. Facultad de Ciencias y Filosofa/ IIA
	Universidad Peruana Cayetano Heredia, Lima,
	Perú
Maggiorini Marco	MD
	Medical Intensive Care Unit, University Hospital,
	Zurich
Masuyama Shigeru	MD, Japan
Neupane Maniraj	Resident Physician, University of Pittsburgh
	Medical Center, Pittsburgh, USA
	Vice-president, Mountain Medicine Society of
	Nepal, Kathmandu, Nepal
Norboo Tsering	MD, Ladakh Institute of Prevention, India
Oshiro Kazue	MD, UKDIMM, FAWM
	Director of Mountain Medicine, Research, &
	Survey Division
	Hokkaido Ohno Memorial Hospital
Pandey Prativa	Medical Director for CIWEC Hospital and Travel
	Medicine Center, Kathmandu, and Pokhara
Parati Gianfranco	MD
	Professor of Cardiovascular Medicine, Dept.
	Health Sciences, University of Milano-Bicocca
	Head, Dept. Cardiovascular, Neural and
	Metabolic Sciences, S. Luca Hospital,
Dacha Oadar	IRCCS Istituto Auxologico Italiano, Milano, Italy
Pasha Qadar	PhD CSIR Institute of Conomics & Integrative Rielegy
	CSIR-Institute of Genomics & Integrative Biology
Paterson Ryan	Mall Road, Delhi-110007, India MD; DiMM, DTM&H Kaiser Permanente and the
Paterson Ryan	University of Colorado Department of Emergency
	Medicine

Pun Matiram	MBBS, MSc, MA
	Laboratory of Human Cerebrovascular Physiology
	Program in Mountain Medicine and High Altitude
	Physiology
	University of Calgary, Calgary, Canada
Richalet Jean Paul	MD
	Professor of Physiology and Sports Medicine
	Université Paris 13
Rodway George	MD, PhD
	Associate Professor
	School of Nursing
	University of California, Davis
	Sacramento, CA
Shlim David	MD
	Jackson Hole Travel and Tropical Medicine
	Jackson Hole, Wyoming
	Past-president, International Society of Travel
	Medicine
Strapazzon Giacomo	MD, PhD
	EURAC research, Vice-Head of Institute of
	Mountain Emergency Medicine, Bolzano, Italy
Swenson Erik	MD
	VA Puget Sound Health Care System, University
	of Washington, Seattle, WA, USA
Thapa Ghan Bahadur	MD, Mountain Medicine Society of Nepal
	(MMSN)
Zafren Ken	MD, FAAEM, FACEP, FAWM
	Medical Advisor, Alaska Mountain Rescue Group
	Vice President - International Commission for
	Mountain Emergency Medicine (ICAR MedCom)
	Clinical Professor - Department of Emergency
	Medicine
	Stanford University Medical Center -Stanford, CA
	USA
	Staff Emergency Physician - Alaska Native
	Medical Center - Anchorage, AK USA

4.2 Chairpersons and speakers

Name	Affiliation
Acharya Suman	MBBS, DIMM
	Mountain Medicine Society of Nepal, Nepal
Adhikari Subarna	MD, Mountain Medicine Society of Nepal
Arjyal Amit	MD, Patan Academy of Health Sciences

Bailey Damian	FPVRI FRSC FACSM FPS
	Royal Society Wolfson Research Fellow
	Head of the Neurovascular Research Laboratory
	Faculty of Life Sciences and Education, University of South Wales
Baniya Santosh	MD, DiMM, DiGH
Bao Haihua	Department of Medical Imaging Center, Affiliated Hospital of Qinghai
	University, Xining, China
Bashyal Gobi	Himalayan Rescue Association
Basnyat Buddha	MD, MSc, FACP, FRCP
	Medical director of HRA
	Director of Oxford University Clinical Research Unit-Nepal
Beall Cynthia	PhD
	Professor of Anthropology
	Case Western Reserve University
Bhandari Sanjeeb	MD, Mountain Medicine Society of Nepal
Bhatta Narendra	President of the Himalayan Rescue Association
Bing Su	Kunming Institute of Zoology, Chinese Academy of Sciences, China
Brodmann Maeder Monika	MD, MME
	Senior Researcher
	Eurac Research, Institute of Mountain Emergency Medicine, Bolzano,
	Italy
Brugger Hermann	MD
	Head of Institute of Mountain Emergency Medicine, EURAC research,
	Bolzano, Italy
	Associate Professor Innsbruck Medical University, Innsbruck, Austria
	President of the International Society for Mountain Medicine (ISMM)
Burns Patrik	MD, Stanford University School of Medicine, Stanford, California
Caws Maxine	PhD, Senior Lecturer at Liverpool School of Tropical Medicine
	(LSTM), UK
Chahal Anthony	Clinical Assistant Professor at The University of British Columbia,
	Vancouver, Canada
	Medical Director for Canadian Society of Mountain Medicine
Chen Xiaoming	Fourth Military Medical University, Xi'an, China
Cologna Günther	EURAC research, Head of Education department
Dawadi Suvash	MDGP, MBBS, DIMM
	Mountain Medicine Society of Nepal
De Decker Rik	Associate Professor
	Consultant Paediatric Cardiologist
	Director of Cardiac Catheterisation Laboratory
	Dept of Paediatrics and Child Health
	University of Cape Town
	Red Cross War Memorial Children's Hospital
Dixit Kunda	
Dixit Kunda	Red Cross War Memorial Children's Hospital

Ellerton John	MRCGP, UIAA/ICAR/ISMM DIMM
	General Practitioner and Mountain Rescue Doctor, Lake District,
	England
	Medical Officer Mountain Rescue England and Wales 2002-12 President of ICAR Medcom (from October 2017)
	Member of the administrative group for the UIAA/ICAR/ISMM
	Diploma in Mountain Medicine
Elsensohn Fidel	MD
	Past President of ICAR MEDCOM (from October 2017)
Faulhaber Martin	PhD, Department of Sport Science, University Innsbruck, Austria
	Austrian Society of Alpine and High Altitude Medicine
Garg Iti	DIPAS, DRDO, India
Gatterer Hannes	PhD, Senior Researcher at EURAC research, Institute of Mountain
	Emergency Medicine, Bolzano, Italy
Ge Ri-Li	MD, PhD, Research Center for High Altitude Medicine, Qinghai
	University, China
	Director and Professor, Research Center for High Altitude Medicine
	Qinghai University Medical College, China
Ghimire Abhyu	The Mountain Medical Institute
	Namche 01, Solukhumbu, Nepal
Ghosh Sudipta	North-Eastern Hill University, Shillong, India
Giardini Guido	MD, Head of Mountain Medicine and Neurology Centre, Valle
Conggolonzi Conggolonzi	d'Aosta Regional Hospital, Aosta, Italy
Gonggalanzi Gonggalanzi Gorjanc Jurij	Tibet University Medical College, China Mountain Rescue Association Slovenia, Hospital of St. John of God,
Gorjane Julij	Austria
Greene Mike	MD, Mountain Rescue England and Wales, United Kingdom
Guan Weii	Qinghai University Affiliated Hospital, China
Gurung Siddhart	Captain, Simrik Air, Nepal
Hackett Peter	MD
	Altitude Research Center
	University of Colorado School of Medicine
Heinrich Erica	MD, University of Michigan Medical School, Hematopathology
Hillebrandt David	MD
	Vice President ISMM
	Hon Med Advisor to British Mountaineering Council
	Member UIAA Medcom
Holthof Niels	MD, Anesthesiology Resident bei Insel Gruppe, Emergency Physician
	bei Air Glaciers, Switzerland
Jean Dominique	MD Descriptions and Infectious Diseases
	Paediatrics and Infectious Diseases
	Centre for Prenatal Diagnosis Grenoble University Hospital, France
Kamal Thapa	MD, Mountain Medicine Society of Nepal
Karkey Abhilasha	Vice Director, Oxford University Clinical Research Unit Nepal

XII ISMM WORLD CONGRESS ON MOUNTAIN MEDICINE

"Mountain medicine in the heart of the Himalayas"

Keyes Linda	MD, FACEP
Reyes Linda	Assistant Clinical Professor of Emergency Medicine
	University of Colorado and Attending Physician
	Boulder Community Health
Kharel Prakash	MBBS
	Mountain Medicine Society of Nepal, Nepal
Koirala Pranawa	MD, Mountain Medicine Society of Nepal
Kumar Bhuvnesh	Defence Institute of Physiology and Allied Sciences (DI-AU66 c PAS),
Kumai biluvilesii	Delhi, India
Li Yinglan	Department of General, Qinghai Provincial People's Hospital, Xining,
Li i ingian	China
Lischke Volker	ICAR-MEDCOM, Zürich, Switzerland
	Bergwacht, Berlin, Germany
	Air Zermatt, Zermatt, Switzerland
Lodin Sundström Angelika	Department of Nursing Sciences, Mid Sweden University, Sweden
Longli Kang	Key Laboratory for Molecular Genetic Mechanisms and Intervention
	Research on High Altitude Disease of Tibet Autonomous Region,
	Xizang Minzu University, China
Luks Andrew	MD, Professor in Pulmonary, Critical Care & Sleep Medicine,
	University of Washington, Seattle, WA, USA
Ma Jie	Qinghai University Affiliated Hospital, Xining, China
Maggiorini Marco	MD
	Medical Intensive Care Unit
	University Hospital
Martinelli Massimo	Italian National Research Council, Institute of Information Science
	and Technologies, Italy
McIntosh Scott	MD, MPH
	Associate Professor, Division of Emergency Medicine, University of
	Utah
	Director, Wilderness Medicine Fellowship
	Medical Director, Summit County EMS
	Associate Medical Director, AirMed
Mena Nicolas	Universidad Catolica de Chile, Chile
Mishra Aastha	CSIR-Institute of Genomics and Integrative Biology, Delhi, India;
	2SNM Hospital, Leh, India
Moens Didier	MD, Anesthésiste-Réanimateur Urgentiste
	Médecin chef du Centre Médical Héliporté de Bra sur Lienne
	Chef de 6linique 6linique6-SAMU
	Services des 6linique6 CHU de Liège
	Anesthésiste 6linique 6linique du Mont St Martin
Molden David	PhD
	Director General
	International Centre for Integrated Mountain Development
Muckenthaler Martina	University of Heidelberg, Heidelberg, Germany
Neupane Maniraj	Resident Physician, University of Pittsburgh Medical Center, Pittsburgh, USA

Nizeula Chailach	MD. Tribbuyer Medical University Nevel
Niroula Shailesh	MD, Tribhuvan Medical University, Nepal
Norboo Tsering	MD, Ladakh Institute of Prevention, India
Nordgren Marie	Swedish Mountain Rescue, Sweden
Oshiro Kazue	MD, UKDIMM, FAWM
	Director of Mountain Medicine, Research, & Survey Division
	Hokkaido Ohno Memorial Hospital
Paal Peter	MD, Department of anesthesiology and intensive care medicine,
	Hospitallers Brothers Hospital Salzburg, Austria
Pandey Kishore	MD, CIWEC Hospital and Travel Medicine Center, Nepal
Panjwani Usha	Defence Institute of Physiology and Allied Sciences, India
Pant Sushil	MD, Mountain Medicine Society of Nepal
Parati Gianfranco	MD
	Professor of Cardiovascular Medicine, Dept. Health Sciences,
	University of Milano-Bicocca
	Head, Dept. Cardiovascular, Neural and Metabolic Sciences, S. Luca
	Hospital
	IRCCS Istituto Auxologico Italiano, Milano, Italy
Pasha Qadar	PhD
	CSIR-Institute of Genomics & Integrative Biology
	Mall Road, Delhi-110007, India
Paterson Ryan	MD, DIMM, DTM&H
	Kaiser Permanente and the University of Colorado Department of
	Emergency Medicine
Pradhan Rashila	CIWEC Hospital and Travel Medicine Center, Nepal
Pratali Lorenza	MD, PhD
	Institute of Clinical Physiology, CNR, Italy
Rain Manjari	CSIR-Institute of Genomics and Integrative Biology, Delhi, India
Rauch Simon	MD, EDIC, EURAC research, Institute of Mountain Emergency
	Medicine, Bolzano, Italy
Raj Pant Samriddha	MBBS
	Mountain Medicine Society of Nepal, Nepal
Reddy Prasanna	Defence Institute of Physiology & Allied Sciences, India
Richalet Jean Paul	MD
	Professor of Physiology and Sports Medicine
	Université Paris 13
Rodway George	MD, PhD
	Associate Professor
	School of Nursing
	University of California, Davis
	Sacramento, CA
Roy Steve	MD, Northern Ontario School of Medicine, Thunder Bay, Canada
Sakya Mila	Patan Academy of Health Sciences, Nepal
Schagatay Erika	Department of Health Sciences, Mid Sweden University, Sweden

Semple John	MD, MSc, FRCSC, FACS
	Head Division of Plastic Surgery
	Women's College Hospital
	Chair, Surgical Research
	Canadian Breast Cancer Foundation
	Professor, Dept of Surgery
	University of Toronto
Shah Kashim	CIWEC Hospital and Travel Medicine Center, Nepal
Sherpa Ang Tshering	Chairman of Climate Alliance of Himalayan Communities (CAHC)
	Honorary Member of International Climbing and Mountaineering
	Federation (UIAA)
	IP President of Asian Mountaineering and Climbing Federation
	(UAAA) and Nepal Mountaineering Associatio (NMA)
Sherpa Lhakputi	Executive Director, Mountain Academy Nepal, Nepal
Sherpa Nima Namgyl	MD, Himalayan Medics, Nepal
Sherpa Dawa Steven	Mountaineer and Co-founder of Himalayan Climate Initiative, Nepal
Shlim David	MD
	Jackson Hole Travel and Tropical Medicine
	Jackson Hole, Wyoming
	Past-president, International Society of Travel Medicine
Shrestha Ninadini	MD, Nidan Hospital, Nepal
Singh Somnath	Defence Institute of Physiology and Allied Sciences, India
Skaiaa Sven Christjar	MD, Oslo University Hospital, Air Ambulance Department, Norway
Soria Jose Manuel	Genomic of Complexes Diseases Unit, Hospital de la Santa Creu i
	Sant Pau, Spain
Soteras Inigo	MD, PhD. Hospital Cerdanya, Spain
	Bombers de la Generalitat de Catalunya
Stokes Suzy	Consultant in Emergency Medicine and Pre-hospital Emergency
	Medicine
	Oxford University Hospitals, Oxford, England
	MRCEM, FIMC, DIMM, FAWM
Strapazzon Giacomo	MD, PhD, EURAC research, Vice-Head of Institute of Mountain
	Emergency Medicine, Bolzano, Italy
Sumann Günther	MD, MSc, FMH, EDIC, DESA
	Medical Director – Multidisciplinary Intensive Care Unit
	Department of Anesthesiology, Intensive Care Medicine &
	Resuscitation
	President of the Austrian Society of Mountain and High Altitude
	Medicine
	SRRWS Hospital Grabs Spitalstrasse 44 CH-9472 Grabs
Sun Yanqiu	Department of Radiology, Qinghai Provincial People's Hospital,
	Xining, China
Suwal Indraman	Director, Disaster Management Department
	Kathmandu Metropolitan City
	Bag Darbar, Kathmandu

Swenson Erik	MD
SWEIISOIT LITK	VA Puget Sound Health Care System, University of Washington,
	Seattle, WA, USA
Systermans Brenton	Senior Lecturer in Remote and Extreme Environment Medicine,
Conversiti Dista	University of Tasmania
Szawarski Piotr	MD, Guy's and St Thomas' NHS Foundation Trust, Department of
	Anaesthetics, UK
Tang Feng	Qinghai University, Xining, China
Thapa Man Bahadur	UNEP, Nepal
Thapa Kamal	MD, Mountain Medicine Society of Nepal
Tomazin Iztok	MD, University of Ljubljana, Department of Family Medicine,
	Ljubljana, Slovenia
Turner Rachel	PhD candidate, EURAC research, Institute of Mountain Emergency
	Medicine, Bolzano, Italy
Upadhyay Jenisha	MBBS, DIMM
	Mountain Medicine Society of Nepal, Nepal
Van Vessem Marieke	Leiden University Medical Center, The Netherlands
Walpoth Beat	MD, FAHA, Emeritus, Dept. of Cardiovascular Surgery, University
	Hospital, Geneva, Switzerland
Wiget Urs	Past President of ICAR MEDCOM, Switzerland
Williams Jason	BS, NRP, DiMM, Director of the International Mountain Medicine
	Center at the University of New Mexico, Department of Emergency
	Medicine
Willmann Gabriel	MD, University of Tuebingen EKU Tübingen · Eye Hospital, Germany
Yadav Jayant	MBBS
	Mountain Medicine Society of Nepal, Nepal
Yuying Zhang	Department of Radiology, Qinghai Provincial People's Hospital,
, , , ,	Xining, China
Zafren Ken	MD, FAAEM, FACEP, FAWM
	Medical Advisor, Alaska Mountain Rescue Group
	Vice President - International Commission for Mountain Emergency
	Medicine (ICAR MedCom)
	Clinical Professor - Department of Emergency Medicine
	Stanford University Medical Center -Stanford, CA USA
	Staff Emergency Physician - Alaska Native Medical Center -
	Anchorage, AK USA
Zeng Changqing	Beijing Institute of Genomics, Chinese Academy of Sciences, China
	being instruct of denomics, ennese Academy of sciences, enna

5. Scientific program

5.1 Full program



XII ISMM WORLD CONGRESS ON MOUNTAIN MEDICINE "Mountain medicine in the heart of the Himalayas"

WEDNESDAY 21 NOVEMBER REGISTRATION DAY

LOCATION:	International societies meetings
CRYSTAL HALL 11:00-15:00	UIAA meeting
SENATE 11:00-15:00	ICAR MEDCOM informal meeting*
SENATE 15:00-17:00	ISMM Executive Committee meeting
LOCATION: FOYER 10:00-17:00	Registration
LOCATION: REGAL I 17:00-18:30	Welcome speech B Basnyat / H Brugger / S Baniya / K Dixit
	Opening key lectures Mountain medicine in Nepal and the early days of the Himalayan Rescue Association – P Hackett Altitude and attitude in a warming Himalaya – K Dixit
LOCATION: REGAL BALLROOM 19:30	Welcome aperitif

THURSDAY 22 NOVEMBER MOUNTAIN EMERGENCY MEDICINE main session

LOCATION: meeting point REGAL I 07:00-08:00	PRACTICAL WORKSHOP - Technology in search and rescue – S McIntosh / Sherpa NN
LOCATION: REGAL I 08:00-09:00	JOINT SESSION - Mountain rescue in the Himalayas – Himalayan Rescue Association and Mountain Medicine Society of Nepal – G Bashyal / S Adhikari / B Systermans
LOCATION: REGAL I 09:00-10:30	SESSION A - Science update – Trauma in mountain rescue – J Ellerton / R De Decker
	© 30 min Human factors in wilderness accidents – R De Decker
	 So min Evolving management of the multi-trauma patient - G Sumann 15 min Blood transfusion in mountain emergency medicine - experiences from Norwegian HEMS - S C Skaiaa
	© 15 min Emergency medicine in Nepal - S Bhandari
LOCATION: FOYER 10:30-11:00	COFFEE BREAK
LOCATION: REGAL I	SESSION B - Science update – Accidental hypothermia and cold injuries – P Paal
11:00-12:30	© 20 min Frostbite injuries – a Himalayan perspective – S Dawadi
	© 15 min Frostbite injuries in the Austrian Alps – a retrospective 11-year national registry study – S Rauch
	© 15 min Cold susceptibility of digit stumps resulting from amputation after freezing cold injury in elite alpinists – J Gorjanc
	© 20 min The International Hypothermia Registry – lessons learned of 240 cases – B Walpoth
	© 20 min Hypothermia outcome prediction after ECLS for hypothermic cardiac arrest: The HOPE score – P Paal
LOCATION: GARDEN 12:30-13:30	LUNCH BREAK
LOCATION: REGAL I	SESSION C - Science update – Avalanche rescue – G Strapazzon / S McIntosh
13:30-15:00	© 20 min Avalanche survival: can we dive in snow? – G Strapazzon
	© 10 min Analysis of the avalanche at Mount Everest Base Camp during the April 2015 earthquake in Nepal – J Semple
	© 20 min Open issues in avalanche rescue: from guidelines to new strategies – <i>S McIntosh</i>
	© 10 min BLS resuscitation in avalanche victims is related to body position – a randomized single blinded mannequin study – R Turner
	© 10 min Cut-off values for serum potassium and core temperature at hospital admission for extracorporeal rewarming of avalanche victims in cardiac arrest – <i>H Brugger</i>
	© 10 min Prevention and management of avalanches in the Himalayas - S Bhandari / A Tiwari

THURSDAY 22 NOVEMBER

MOUNTAIN EMERGENCY MEDICINE main session

LOCATION: REGAL I	SESSION D - Case discussion – K Zafren / R Paterson		
15:00-16:30	© 30 min	Rescue with multiple cases of severe hypothermia in Arolla, Switzerland – <i>N Holthof</i>	
	© 30 min	Everest Base Camp disaster following 2015 earthquake - M Brodmann	
	© 15 min	A report of rescue work in 2014 volcanic eruption in Japan – K Oshiro	
	© 15 min	Mass casualty incident on Ptarmigan Peak, Alaska – K Zafren	
LOCATION: FOYER 16:30-17:00	COFFEE BR	EAK	
LOCATION: REGAL I 17:00-18:00	KEY LECTUR	RE – Research and methodology – E Swenson / H Brugger / R Turner	
	© 20 min	History of methods in high altitude research – E Swenson	
	© 20 min	Considerations on methodological problems in high altitude and mountain emer- gency medicine research – <i>H Brugger</i>	
	© 20 min	New facility: terraXcube – R Turner	
LOCATION: REGAL I 18:00-18:30	DiMM Cou	rse in Nepal – M Neupane	
	© 3 min	Introduction	
	© 8 min	Glacier training and its challenges in Nepal – S Pant	
	© 8 min	Experiences of a Nepalese female Diploma candidate - J Upadhyay	
	© 8 min	Nepalese Diploma in Mountain Medicine and its future – an international perspective – S Stokes	
LOCATION: REGAL I 19:00-20:00	ISMM Gen	eral Assembly meeting	

THURSDAY 22 NOVEMBER HIGH ALTITUDE PHYSIOLOGY parallel session

LOCATION: meeting point: REGAL I 07:00-08:00	PRACTICAL	WORKSHOP – Technology in Search and Rescue – S McIntosh / Sherpa NN
LOCATION: REGAL I 08:00-09:00		ON - Mountain Rescue in the Himalayas – Himalayan Rescue Association in Medicine Society of Nepal – G Bashyal / S Adhikari / B Systermans
LOCATION: REGAL II 09:00-10:30	SESSION A -	Science update – Genetics and pathophysiology – C Beall / S Bing
	© 15 min	Genetic and epigenetic signals influence adaptation under hypobaric hypoxia – <i>Q Pasha</i>
	© 15 min	Regulating iron and hemoglobin levels at high altitude – M Muckenthaler
	© 15 min	Multi-gene interactions underlying genetic adaptation to high altitude in highlander Tibetans – S Bing
	© 15 min	Associations between arterial oxygen saturation, heart rate and acute mountain sickness in a population of 17-21 year old Han Chinese students traveling from low altitude to Lhasa at 3,658 m above sea level – G Gonggalanzi
	© 15 min	Porters, pilgrims and pickers – P Koirala
	© 15 min	Hypoxic ventilatory response in relation to hypobaric hypoxia among the Tawang Monpa from Eastern Himalayan Mountain – S Ghosh
LOCATION: FOYER	COFFEE BRE	
10:30-11:00		
LOCATION: CRYSTAL HALL 11:00-12:30	SESSION B -	- Poster presentations – S Pant / S Raj Pant
LOCATION: GARDEN	LUNCH BRE	АК
12:30-13:30		
LOCATION: REGAL II 13:30-15:00	SESSION C -	- Science update – Pre-existing diseases at High Altitude – G Parati / H Brugger
	© 15 min	Altitude exposure of patients with coronary artery disease - A Luks
	© 15 min	Altitude exposure of patients with pulmonary hypertension and congenital heart disease – E Swenson
	© 15 min	Altitude exposure of patients with heart failure – M Maggiorini
	© 15 min	Altitude exposure of patients with arterial hypertension – G Parati
	© 15 min	Effect of geographical altitude on coronary artery diameter and myocardial perfusion in healthy volunteers – Y Sun
	© 15 min	Exposure to high altitude: a possible risk factor for venous thromboembolism - I Garg

THURSDAY 22 NOVEMBER HIGH ALTITUDE PHYSIOLOGY parallel session

LOCATION: REGAL II 15:00-16:30	SESSION D B Basnyat /	- Meet the experts – Drug therapy and prevention of acute mountain sickness – K Thapa
	© 15 min	Reduced acetazolamide dosing in countering altitude illness: a comparison of 62.5 vs 125 mg (the RADICAL trial) – S McIntosh
	© 15 min	Prophylactic Acetaminophen or Ibuprofen result in equivalent acute mountain sickness incidence at high altitude: a prospective randomized trial – P Kharel
	© 15 min	Altitude sickness in climbers and efficacy of NSAIDs trial (ASCENT): randomized, controlled trial of Ibuprofen versus placebo for prevention of altitude illness – J Yadav
	© 15 min	Acute mountain sickness prevention with Ibuprofen relative to Acetazolamide – P Burns
	© 15 min	Spironolactone does not prevent acute mountain sickness: a prospective, double-blind, randomized, placebo-controlled trial by SPACE Trial Group (Spironolactone and Acetazolamide trial in the prevention of acute mountain sickness group) – J Upadhyay
	© 15 min	What may be the optimal way to prevent AMS – K Thapa / A Ghimire
LOCATION: FOYER 16:30-17:00	COFFEE BR	EAK
LOCATION: REGAL I 17:00-18:00	KEY LECTU	RE – Research and methodology – E Swenson / B Brugger / R Turner
	© 20 min	History of methods in high altitude research – E Swenson
	© 20 min	Considerations on methodological problems in high altitude and mountain emer- gency medicine research – H Brugger
	© 20 min	New facility: terraXcube - R Turner
LOCATION: REGAL I 18:00-18:30	DiMM Cou	rse in Nepal – M Neupane
	© 3 min	Introduction
	© 8 min	Glacier training and its challenges in Nepal – S Pant
	© 8 min	Experiences of a Nepalese female Diploma candidate - J Upadhyay
	© 8 min	Nepalese Diploma in Mountain Medicine and its future – an international perspective – S Stokes
LOCATION: REGAL I 19:00-20:00	ISMM Gen	eral Assembly meeting

THURSDAY 22 NOVEMBER

parallel session II

LOCATION: CRYSTAL HALL 14:00-15:30	New resea	u <mark>rch studies in high altitude physiology in Asia I</mark> – RL Ge
	© 15 min	Study on the biologic viability and boundary range of Hepatic Alveolar Echinococcosis by the contrast-enhanced ultrasonography and ARFI in the plateau area – Y Zhang
	© 15 min	Hypoxia adaptation of Tibetan mountaineering athletes - C Zeng
	© 15 min	Study on the correlation vascular lesions and cognitive function in native Tibetan with H-type hypertension in plateau – Y Li
	© 15 min	Cognitive and neuroimaging changes in healthy immigrants upon reLocation to high altitude: a panel study - <i>X</i> Chen
	© 15 min	Exon sequences study of candidate target gene from high altitude polycythemia – L Kang
	© 15 min	Apoptosis and the role of molecular in hematopoietic cell in chronic mountain sickness – J Ma

THURSDAY 22 NOVEMBER

parallel session III

LOCATION: CRYSTAL HALL 15:30-17:15	New resea	rch studies in high altitude physiology in Asia II – Q Pasha
	© 15 min	Optimizing human health in high altitude: DRDO's initiatives – B Kumar
	© 15 min	Long term residence at high altitude alters brain functions in a time dependent manner in lowlanders – U Panjwani
	© 15 min	Nutritional status during acclimatization and stay at high altitude - SN Singh
	© 15 min	Inflammasome pathway plays an important role in pathophysiology of high alti- tude induced pulmonary hypertension – P Reddy
	© 15 min	Homeostasis of molecules of hypoxia-sensing pathway in adaptation to hypobaric hypoxia – A Mishra
	© 15 min	Role of telomere and telomerase in high-altitude pulmonary edema - M Rain
	© 15 min	Chronic mountain sickness in Rubsho valley of Ladakh – T Norboo

FRIDAY 23 NOVEMBER HIGH ALTITUDE PHYSIOLOGY main session

LOCATION meeting point: REGAL I o6:30-08:00	PRACTICAL WORKSHOP - POCUS – HAPE AND HACE – L Pratali / G Giardini	
LOCATION: REGAL I 08:30-08:55	OPENING KEY LECTURE High altitude medicine in the Himalayas – <i>B Basnyat</i>	
LOCATION: REGAL I 09:00-10:30	SESSION A - Science update - High altitude research: new scores, tools and protocols - P Hackett	
	© 25 min Strengthening Altitude Research – the "STAR" data reporting guidelines for clinical high altitude research – M Brodmann	
	© 25 min Overview of scoring systems for acute mountain sickness and the new Lake Louise score – A Luks	
	© 25 min Ultrasound for clinical and research use at high altitude – L Keyes	
	© 15 min Revisiting the Lake Louise score and its 2018 version – JP Richalet	
LOCATION: FOYER 10:30-11:00	COFFEE BREAK	
LOCATION: REGAL I 11:00-12:30	SESSION B - Science update - Acute mountain diseases – M Maggiorini	
	© 20 min High altitude cerebral edema – A Luks	
	© 20 min High altitude pulmonary edema – M Maggiorini	
	© 20 min High altitude retinopathy – G Willmann	
	© 10 min Choroidal thickness changes induced by hypoxia in high-altitude conditions: results from the SHERPA-Everest'2017 project – JM Soria	
	© 10 min Long-term effects of high altitude cerebral edema – M van Vessem	
	© 10 min General discussion	
LOCATION: GARDEN 12:30-13:30	LUNCH BREAK	

FRIDAY 23 NOVEMBER

HIGH ALTITUDE PHISIOLOGY main session

LOCATION: REGAL I 13:30-15:00	SESSION C - Science update - Chronic mountain sickness – E Swenson / RL Ge
	© 20 min An update of sleep disorder and chronic mountain sickness – W Guan
	© 20 min Genetic basis of chronic mountain sickness – E Heinrich
	© 20 min Hypoventilation in chronic mountain sickness: cause or consequence of polycythemia? – E Swenson
	© 15 min Inhibition of suicidal erythrocyte death by chronic hypoxia – F Tang
	© 15 min MRI related study on chronic mountain sickness patients: right ventricular remodeling and changes of main pulmonary artery - H Bao
LOCATION: REGAL I	SESSION D - Case discussion – A Luks
15:00-16:30	
	© 20 min Unusual presentations at the Everest ER – S Adhikari
	© 20 min A difficult case of dyspnea – S Stokes
	© 20 min A pilgrim with ataxia – S Dawadi
	© 20 min High altitude psychosis – B Brugger
	© 10 min General discussion Panelists: P Hackett / L Keyes / P Paal / D Bhandari
LOCATION: FOYER 16:30-17:00	COFFEE BREAK
LOCATION REGAL I	COMBINED SESSION AND PUBLIC EVENT
17:00-19:00	Disaster preparedness in the Himalayas (ICIMOD and UNDP) – G Cologna (moderator)
	Talk 1: How will climate change affect people in the Himalayas - D Molden
	Talk 2: Disaster risk management in Nepal – MB Thapa
	Roundtable discussion with all stakeholders
LOCATION: REGAL	Talk by Dawa Steven Sherpa
BALLROOM 20:00	Taik by Dawa Steven Sherpa
LOCATION: GARDEN 20:30	GALA DINNER

FRIDAY 23 NOVEMBER MOUNTAIN EMERGENCY MEDICINE parallel session

LOCATION meeting point: REGAL I 07:00-08:00	PRACTICAL WORKSHOP - POCUS – Mountain emergency medicine – L Keyes / M Brodmann Maeder / D Moens		
LOCATION: REGAL I 08:30-08:55	OPENING K	EY LECTURE High altitude medicine in the Himalayas – <i>B Basnyat</i>	
LOCATION: REGAL II 09:00-10:30	SESSION A	- Science update - Special search and rescue operations – F Elsensohn	
	© 15 min	Canoe accident with three adolescent boys with submersion and profound accidental hypothermia in the Swedish mountains – <i>M Nordgren</i>	
	© 15 min	Consensus guidelines for on-site management and transport of patients in canyoning incidents – G Strapazzon	
	© 15 min	The impact on MR in Nepal after the big earthquake – P Koirala	
	© 15 min	Suspension syndrome: a potentially fatal vagally mediated circulatory collapse - an experimental randomized crossover trial – S Rauch	
	© 15 min	Advanced Resuscitation Strategies in mountain emergency medicine – SC Skaiaa	
	© 15 min	General discussion	
LOCATION: FOYER 10:30-11:00	COFFEE BR	EAK	
LOCATION: CRYSTAL HALL 11:00-12:30	SESSION B	– Poster presentations – S Dawadi / S Acharya	
LOCATION: GARDEN 12:30-13:30	LUNCH BRE	-AK	
LOCATION: REGAL II 13:30-15:00	SESSION C	- Science update - Cardiopulmonary resuscitation – K Oshiro / Q Pasha	
	© 30 min	CPR for a favorable neurological outcome in mountain emergency medicine – <i>P Paal</i>	
	© 30 min	OHCA resuscitation about manual, mechanical CPR and CPR at high altitude – SC Skaiaa	
	© 15 min	Airway management and ventilator choices in helicopter human external cargo evacuation – V Lischke	
	© 15 min	Implementation of a mechanical CPR device in a physician staffed HEMS – a prospective observational study – S Rauch	

FRIDAY 23 NOVEMBER

MOUNTAIN EMERGENCY MEDICINE parallel session

LOCATION: REGAL II 15:00-16:30	SESSION D - Meet the experts – <i>M Neupane / K Thapa</i>	
	© 20 min Challenges and solutions of delivering analgesia in the mountains: experience from England and Wales - M Greene	
	© 20 min Fentanyl sublingual versus Fentanyl intravenous for acute traumatic pain – a prospective, randomized, double-blind, clinical, single-center non-inferiority trial – G Strapazzon	
	© 15 min Pain management in canyoning and caving accidents - I Soteras	
	© 15 min Modalities of pain management in rural Nepal – N Shrestha	
	© 15 min Pain management in the field- the North American perspective – S McIntosh	
	© 5 min Session summary	
LOCATION: FOYER 16:30-17:00	COFFEE BREAK	
LOCATION REGAL I	COMBINED SESSION AND PUBLIC EVENT	
17:00-19:00	Disaster preparedness in the Himalayas (ICIMOD and UNDP) – G Cologna (moderator)	
	Talk 1: How will climate change affect people in the Himalayas – D Molden	
	Talk 2: Disaster risk management in Nepal – MB Thapa	
	Roundtable discussion with all stakeholders	
LOCATION: REGAL	Talk by Dawa Steven Sherpa	
BALLROOM 20:00	Taik by Dawa Steven Sileipa	
LOCATION: GARDEN 20:30	GALA DINNER	

SATURDAY 24 NOVEMBER

TRAVEL MEDICINE main session

LOCATION meeting point: REGAL I 07:00-08:00	PRACTICAL WORKSHOP How to manage a base camp clinic – <i>S Baniya / S Adhikari / S I</i>	Dawadi / S Bhandari
LOCATION: REGAL I 08:30-08:55	OPENING KEY LECTURE - The history of travel medicine in Ne	epal – D Shlim
LOCATION: REGAL I 09:00-10:30	SESSION A - Science update - Biblical illnesses: tuberculosis a B Basnyat	and typhoid in South Asia –
	© 30 min Tuberculosis in South Asia – <i>M Caws</i>	
	© 20 min Randomized controlled trial of conjugate typho Nepal – M Sakya	id vaccine in Kathmandu,
	© 20 min Randomized controlled trials in the treatment of Nepal - A Arjyal	of typhoid fever in Kathmandu,
	© 20 min Antimicrobial resistance in typhoid fever in Sou	ith Asia – A Karkey
LOCATION: FOYER 10:30-11:00	COFFEE BREAK	
LOCATION: REGAL I 11:00-12:30	SESSION B - Meet the experts – Travellers' diarrhea/medicin	e in Nepal – B Basnyat
	© 30 min Travellers' diarrhea in Nepal - etiology and resis	stance – K Pandey
	© 15 min Demographic profile of helicopter rescued patie <i>R Pradhan</i>	ents visiting CIWEC hospital –
	© 30 min Nick Simon's Institute: enhancement of health K Shah	outside Kathmandu valley –
LOCATION: GARDEN 12:30-13:30	LUNCH BREAK	

SATURDAY 24 NOVEMBER

TRAVEL MEDICINE main session

LOCATION: CRYSTAL HALL 13:30-15:00	Poster presentations – S Adhikari / J Yadav	
LOCATION: REGAL I 15:00-16:30		 Science update - Pilgrims' and other medically disadvantaged populations itude - K Zafren / S Baniya
	© 5 min	Introduction – S Baniya
	© 20 min	The changing demographics of mountain porters in the Gokyo Valley of Nepal - A Bhattarai
	© 20 min	Gosainkund Health Camp - 2 Decades of the Himalayan Rescue Association, Nepal – G Bashyal
	© 20 min	Pilgrims at high altitude - data from the Gosainkund Health Camp – S Acharya
	© 20 min	Yarshagumba collectors in Nepal Himalayas – K Zafren
	© 5 min	Summary/conclusions – S Baniya / K Zafren
LOCATION: FOYER 16:30-17:00	COFFEE BR	EAK
LOCATION: REGAL I 17:00-18:30	Telemedici	ine – P Hackett / D Hillebrandt
	© 5 min	Introduction – P Hackett
	© 15 min	Telemedicine: coming of age in travel and expedition medicine – P Szawarski
	© 50 min	Case presentations and panel discussion – P Hackett (moderator) Panelists: D Hillebrandt / R Paterson / S Baniya
	© 10 min	Teleconsultations in the mountains: the role of nurses expert in mountain medicine – G Giardini
	© 10 min	Telemedicine in Italian mountain area: the e-Res@mont project - M Martinelli
LOCATION: REGAL I 18:30-18:45	Closing cer	remony – MMSN

SATURDAY 24 NOVEMBER EXPEDITION MEDICINE parallel session

LOCATION meeting point: REGAL I 07:00-08:00	PRACTICAL WORKSHOP How to manage a base camp clinic – <i>S Baniya / S Adhikari / S Dawadi / S Bhandari</i>		
LOCATION: REGAL I 08:30-08:55	OPENING KEY LECTURE - The history of travel medicine in Nepal – D Shlim		
LOCATION: REGAL II 09:00-10:30	SESSION A - Science update - Research on expeditions – JP Richalet		
	© 30 min Research during expeditions: physiological, medical, ethical and practical issues – JP Richalet		
	© 30 min Multi-Omic data approach for discovery hypoxia-related processes: the SHERPA_Everest 2017 project – JM Soria		
	© 15 min Spleen volume and contraction during apnea in Mt. Everest climbers and EBC trekkers – A Lodin Sundström		
	© 15 min Level of knowledge about mountain medicine in mountaineers who tried to ascend Mt. Dhaulagiri during spring 2018 – N Mena		
LOCATION: FOYER 10:30-11:00	COFFEE BREAK		
LOCATION: REGAL II 11:00-12:30	SESSION B - Case reports – K Zafren		
	© 15 min Rescue of a dead person on Aconcagua – I Tomazin		
	© 15 min Psychotic break on Ohmi Kangri – K Zafren		
	© 15 min Pregnancy on high altitude expeditions – U Wiget		
	© 15 min Accident on Gasherbrun I – I Tomazin		
	© 15 min Evacuation from Annapurna in 1987 – G Rodway		
	© 15 min Plane crash on Mt. Vaughan Antarctic expedition – K Zafren		
LOCATION: FOYER 12:30-13:30	LUNCH BREAK		

SATURDAY 24 NOVEMBER EXPEDITION MEDICINE parallel session

LOCATION: REGAL II 13:30-15:00	SESSION C	- Meet the experts - Special populations going to high altitude - G Rodway / D Jean
	© 30 min	Lowland families relocating to high altitude: risks to pregnant women and young children – D Jean
	© 15 min	Cerebral blood flow in high-altitude Sherpa children – S Niroula
	© 15 min	Ventilatory response to hypoxia and tolerance to high altitude in women. Influence of menstrual cycle, oral contraception and menopause – JP Richalet
	© 15 min	The elderly going to high altitude - A Luks
	© 15 min	Considerations for cancer patients travelling to high altitude - S Roy
LOCATION: REGAL II 15:00-16:30		- Science update - Extreme sports at high altitude and in the wilderness – M Faulhaber
	© 30 min	How does your brain sense oxygen? Pushing the limits with the physiology of flow! – D Bailey
	© 15 min	Morbidity amongst runners presenting for medical care during 3 editions of an ultra trail race in the Himalayas - S Dawadi
	© 15 min	Challenges and applications for advanced medical monitoring in extreme environments – R Turner
	© 15 min	How diving takes us higher – new insights in high altitude physiology by studying freediving – E Schagatay
	© 15 min	Mountain ultra-marathon running: performance determinants and biochemical alterations – <i>H Gatterer</i>
LOCATION: REGAL I 17:00-18:30	Telemedic	ine – P Hackett / D Hillebrandt
	© 5 min	Introduction – P Hackett
	© 15 min	Telemedicine: coming of age in travel and expedition medicine – P Szawarski
	© 50 min	Case presentations and panel discussion – P Hackett (moderator) Panelists: D Hillebrandt / R Paterson / S Baniya
	© 10 min	Teleconsultations in the mountains: the role of nurses expert in mountain medicine – G Giardini
	© 10 min	Telemedicine in Italian mountain area: the e-Res@mont project - M Martinelli
LOCATION: REGAL I 18:30-18:45	Closing ce	remony – MMSN

5.2 Poster schedule

Posters have been assigned to the first section (High altitude medicine and physiology) second section (Mountain emergency medicine), and final section (High altitude and travel medicine) in the Crystal hall as scheduled below.

Торіс:	Date:	Poster ID:	Time:
High altitude medicine and physiology	THURSDAY 23 NOV 2018	P-001 to P-035; P-109; P- 110	11:00-12:30
Mountain Emergency Medicine	FRIDAY 23 NOV 2018	P-036 to P-068;P-106;P- 107;P-108;P-111	11:00-12:30
High altitude and Travel Medicine	SATURDAY 24 NOV 2018	P-069 to P-105; P-112	13:30-15:00

DAY 1: HIGH ALTITUDE PHYSIOLOGY (37)

Poster	Abstract	Abstract title	Authors	Under
no.	no.			
P-001	3835	SUBCLINICAL HIGH-ALTITUDE	Bhibhu Nayak and Mukul	HAP
		PULMONARYEDEMA: AN ESTABLISHED	Mittal	
		CLINICAL ENTITY		
P-002	3869	CEREBROVASCULAR REACTIVITY IN HEALTHY	Jie Liu and Shizheng Wu	HAP
		ADULTS AFTER RAPID ASCENT TO HIGH		
		ALTITUDE		
P-003	3876	OXYGEN CONSUMPTION AND LACTATE	Fernando Moraga, Jorge	HAP
		CONCENTRATION DURING MAXIMUM	Osorio, Andrés Pedreros,	
		EXERCISE AT SEA LEVEL AND HIGH ALTITUDE	and Rodrigo Calderon-Jofre	
		IN MINERS EXPOSED TO CHRONIC		
		INTERMITTENT HYPOBARIC HYPOXIA AT 3800		
		m		
P-004	3924	EFFECT OF HYPOXIA ON THE EXPRESSION OF	Youbang Xie	HAP
		ERYTHROID TRANSCRIPTION FACTORS		
P-005	3907	BLUNTED NITRIC OXIDE REGULATION IN	Yaoxi He, Xuebin Qi,	HAP
		TIBETANS UNDER HIGH-ALTITUDE HYPOXIA	Ouzhuluobu Ouzhuluobu,	
			Shiming Liu, Jun Li, Bing Su,	
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		ANGIOGENESISRELATED FACTORS IN K562		
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P-007	3923	EFFECT OF HIF-1A ON ANGIOGENESIS- RELATED FACTORS IN K562 CELLS UNDER NORMOX	Wenqian Li	НАР
P-008	3931	miR-17 REGULATES HYPOXIA-INDUCED ANGIOGENIC GROWTH FACTOR SECRETION IN MESENCHYMAL STEM CELLS BY TARGETING HIF-1a	Qin-Qin Xu, Hui-Yan Sun, Ri-Li Ge, and Lisheng Wang	НАР
P-009	3934	ANTIOXIDANT ACTIVITY OF A SU5416/HYPOXIAINDUCED EMPHYSEMA AND PULMONARY HYPERTENSION MODEL IN RATS	Yosuke Wada, Yoshiaki Kitaguchi, Masanori Yasuo, and Masayuki Hanaoka	НАР
P-010	3936	HYPOBARIC HYPOXIA-INDUCED CHANGES IN THE SEX HORMONES AND THEIR UNDERLYING REGULATORY PATHWAYS IN ADULT FEMALE RATS	Snigdha Shaw, Utkarsha Kumar, Dishari Ghosh, GopinathBhaumik, Prasanna Reddy, and Kumar Bhuvnesh	НАР
P-011	3939	GENOME-WIDE ANALYSIS REVEALS HIGHALTITUDE HYPOXIA-INDUCED Ras/Rap1 SIGNALING AS AN ACCLIMATIZATION RESPONSE IN KYRGYZ AS COMPARED WITH INDIAN MALES	Priya Gaur, Supriya Saini,Karan Pal, Praveen Vats, Akpay Sarybaev and Bhuvnesh Kumar	НАР
P-012	3941	HIGH-LEVEL MATRILIN-2 EXPRESSION IN THE OSTEOARTHRITIS PATIENTS IN XINING AREA	Junming Luo, Xiaona Li, ZhiliDuan, and Xiaoqin Luo	НАР
P-013	3944	CLINICOPATHOLOGICAL AND MOLECULAR CHARACTERISTICS OF SYNCHRONOUS GASTRIC ADENOCARCINOMA AND GASTROINTESTINAL STROMAL TUMORS IN XINING AREA	Falong Cao and Junming Luo	НАР
P-014	3946	miR-122 INHIBITS ERYTHROID DIFFERENTIATION OF HEMOPOIETIC STEM CELL IN CHRONIC HYPOXIC ENVIRONMENT	Huihui Liu	НАР
P-015	3947	HIGH-ALTITUDE PULMONARY EDEMA AMENABLE INTERACTION BETWEEN RS479200 OF EGLN1 AND RhoGDI-1	Kavita Sharma, Ghulam Mohammad, Tashi Thinlas, and Qadar M.A. Pasha	НАР
P-016	3949	TANKYRASE: A PROMISING TARGET TO EXPLICATE THE ADAPTATION/MALADAPTATION PHENOMENA AT HIGH ALTITUDE	Manjula Miglani, Manjari Rain, Qadar M.A. Pasha, and Arpana Vibhuti	НАР
P-017	3958	ASSOCIATION BETWEEN GENETIC POLYMORPHISMS OF HIF-2a GENE AND HIGH- ALTITUDE PULMONARY HYPERTENSION IN HAN POPULATION	Rong Chang	НАР

P-018	3963	LUNG FUNCTION AMONG ADULT TIBETAN POPULATION LIVING AT 2300 AND 5300 m IN TIBET	BianbaBianba, Yuzhen Yuzhen, QulaQula, Chaoying Cui, and	НАР
P-019	3973	ENDOTHELIAL NITRIC OXIDE SYNTHASE REVISITED: IN SILICO PROFILING REVEALS NINE POTENTIAL RISK MARKERS FOR HIGH- ALTITUDE PULMONARY EDEMA	OuzhuluobuOuzhuluobu Tsering Palmo, Himanshu Singh, Mohammed Faruq, M. Abdin, and Qadar M.A. Pasha	НАР
P-020	3977	EFFECTS OF ACUTE NORMOBARIC VERSUS HYPOBARIC HYPOXIA ON REACTIVE OXYGEN SPECIES PRODUCTION ASSESSED BY ELECTRON PARAMAGNETIC RESONANCE AND OXIDATIVE DAMAGE	Simona Mrakic Sposta, Alessandra Vezzoli, Maristella Gussoni, Giacomo Strapazzon, Sandro Malacrida, Guido Giardini, Michela Montorsi, Vittore Verratti, and Lorenza Pratali	НАР
P-021	3994	"ITALY BIOMEDICAL RESEARCH—SHERPA PROJECT—NEPAL": PRELIMINARY RESULTS OF ENVIRONMENTALLY MODULATED METABOLIC ADAPTATION TO HYPOXIA IN ALTITUDE NATIVES AND SEA LEVEL DWELLERS	Simona Mrakic Sposta, Alessandra Vezzoli, Maristella Gussoni, Vittore Verratti, Ashok Bajracharya, Suwas Bhandari, Sarah Moretti, Manuela Moriggi, Danilo Migliorelli, Mauro Marzorati, and Paolo Cerretelli	НАР
P-022	3996	GREATER SPLEEN VOLUME AND CONTRACTION DURING APNEA IN SHERPA HIGHLANDERS THAN IN NEPALESE LOWLANDERS MAY REFLECT ADAPTATION TO HIGH ALTITUDE	Erika Schagatay, Pontus Holmström, Eric Mulder, Prakash Limbu, and Angelica Lodin Sundström	НАР
P-023	4002	SHERPA_EVEREST'2017 PROJECT: CARDIOPULMONARY CHANGES BETWEEN CAUCASIANS AND SHERPAS AT Mt. EVEREST BASE CAMP (5364 m)	Marc Abuli, Oriol Sibila, Angel Martinez-Perez, Sanjeeb Bhandari, Yogesh Subedi, Devis Paykurel, Emma Roca, Eduardo Garrido, Antoni Bayes- Genis, and Manuel Jose Soria	НАР
P-024	4012	PHYSIOLOGICAL PARAMETERS TO PREDICT ACUTE MOUNTAIN SICKNESS BASED ON LAKE LOUISE QUESTIONNAIRE SYMPTOMS: RESULTS FROM THE SHERPA-EVEREST'2017 PROJECT	Huang Chen, Angel Martinez-Perez, Marc Abuli, Oriol Sibila, Sanjeeb Bhandari, Yogesh Subedi,	НАР

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			Roca, Eduardo Garrido,	
			Antoni Bayes-Genis, Oriol	
			Pujol Vila, and Manuel Jose	
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		HAPLOTYPE EXHIBIT DIMINISHED	Nishith Shrimali, Ghulam	
		INFLAMMATORY RESPONSE BY MONOCYTES	Mohd, Parvaiz Koul, Josef	
			T. Prchal, and Prasenjit	
			Guchhait	
P-026	4025	DIFFERENTIAL EFFECTS ON SLEEP AND	Alain Riveros-Rivera, Juan	HAP
		AUTONOMIC BALANCE BETWEEN	Cote-Orozco, Pilar	
		LOWLANDER AND HIGHLANDER CHILDREN	Guerrero, and Hanns-	
		DWELLING AT HIGH ALTITUDE	Christian Gunga	
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		MUCOSAL LESION IN PATIENTS WITH	Wantai Li, and Ri-Li Ge	
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		NORMOBARIC AND HYPOBARIC HYPOXIA	Stephan Pramsohler	
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		MOUNTAIN SICKNESS WITH CARDIAC		
		MAGNETIC RESONANCE		
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		CHRONIC MOUNTAIN SICKNESS WITH MR	HaihuaBao	
		PERFUSION		
P-032	4056	TRANSCRIPTION FACTORS REGULATION IN	Sandro Malacrida, Giulio	НАР
		HUMAN PERIPHERAL WHITE BLOOD CELLS	Ceolotto, Alessandra	
		DURING HYPOBARIC HYPOXIA EXPOSURE: AN	Giannella, Carlo Reggiani,	
		IN VIVO EXPERIMENTAL STUDY	Alessandra Vezzoli, Simona	
			Mrakic Sposta, Sarah	
			Moretti, Rachel Turner,	
			Marika Falla, Hermann	
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			Strapazzon	
P-033	4064	GROWTH PATTERN IN NEWBORN AT HIGH	Tsering Norboo, Tsering	НАР
		ALTITUDE (Alt. 2700–4500 m): A CROSS-	Dolma, Tsering Stobdan,	
		SECTIONAL STUDY OF NEW BORN THROUGH	Tsering Lhadol,	
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XII ISMM WORLD CONGRESS ON MOUNTAIN MEDICINE

"Mountain medicine in the heart of the Himalayas"

		EARLY CHILDHOOD IN LADAKH, NORTHERN	Hussain, T. Norphel,	
		INDIA 2015–2018	Rinchen Wangmo, Ayesha	
			Malo, Phunchok Norboo,	
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		COMPARATIVE STUDY OF TWO DIFFERENT	Inderjeet Singh Sahota,	
		ETHNIC POPULATIONS WITH DIFFERENT	Tsering Norboo, Reddy	
		CHRONIC MOUNTAIN SICKNESS SCORING	Prasanna, Shashi Bala	
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		SYNTHASE, AND NITRIC OXIDE IN HEALTHY		
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P-109	4049	CARDIAC MAGNETIC RESONANCE EVALUATES	Haihua Bao, Wen Wang	НАР
		THE EFFECT OF MAIN PULMONARY ARTERY		
		DILATATION ON RIGHT HEART STRUCTURE		
		AND FUNCTION WITH CHRONIC MOUNTAIN		
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P-110	4053	VBM AND REHO WITHIN BRAIN GRAY MATTER	Dongjie Kang, Haihua Bao,	НАР
		AND NEURAL ACTIVITY HOMOGENEITY IN OB-	and Zongyuan Qin	
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P-036	3860	SKI-EVEREST (8848 M) EXPEDITION:	Jurij Gorjanc, Igor Mekjavic,	MEM
		EVIDENCE OF SUSCEPTIBILITY TO COLD	Shawnda Morrison, Adam	
		INJURY IN A MOUNTAIN CLIMBER	McDonnell, Polona Jaki	
			Mekjavic, and Rok Blagus	
P-037	3861	THE PLANICA PROTOCOL FOR FROSTBITE	Jurij Gorjanc, Igor Mekjavic,	MEM
		MANAGEMENT-2 CASE REPORTS	Tomo Havlicek, Bostjan	
			Sluga, Polona Jaki Mekjavic,	
			and Matjaz Veselko	
P-038	3863	THE NORWEGIAN GUIDELINES FOR	Sven Christjar Skaiaa	MEM
		PREHOSPITAL MANAGEMENT OF		
		ACCIDENTAL HYPOTHERMIA: A BRIEF		

2074		Muiine He Ling Lie and	
3874			MEM
		Znenying Chen	
3888		Bai Yanlin	MEM
3894		,	MEM
	DURING MOUNTAIN RESCUE MISSIONS		
3895	METHOXYFLURANE AS ANALGESIC IN	Volker Lischke, Armin	MEM
	MOUNTAIN RESCUE MISSIONS	Berner, Jürgen Knapp, Urs	
		Pietsch, and Nina Lischke	
3896	FATAL MOUNTAIN ACCIDENTS IN EUROPE:	Volker Lischke, Armin	MEM
	ARE THE NUMBERS INCREASING?	Berner, Jürgen Knapp, Urs	
		Pietsch, and Nina Lischke	
3898	CARDIOPULMONARY RESUSCITATION OF	Mathias Ströhle, Anna	MEM
	CARDIAC ARREST IN THE AUSTRIAN ALPS:	Vögele, Paul Neuhauser, and	
	A RETROSPECTIVE 10-YEAR NATIONAL	Pe	
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3900	LIGHTNING ACCIDENTS IN THE AUSTRIAN	Mathias Ströhle, Bernd	MEM
	ALPS: A 10-YEAR RETROSPECTIVE	Wallner, Michael Lanthaler,	
	NATIONWIDE ANALYSIS	Simon Rauch, and Peter Paal	
3908	A RELIABLE NOMOGRAM MODEL TO	Yang Mingfei	MEM
	PREDICT THE RECURRENCE OF CHRONIC		
	SUBDURAL HEMATOMA AFTER BURR-		
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3928	EFFECT OF BOSENTAN IN HYPOXIA-	Gaurav Nepal, Saurav Dahal,	MEM
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3942		Naravan Himanshu Singh	MEM
	CLINICAL FAILURE AT HIGH ALTITUDE	Aastha Mishra, Ghulam	
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P-049	3969	APOPTOSIS OF PANCREATIC CELLS IN RATS WITH SEVERE ACUTE PANCREATITIS AT HIGH ALTITUDE	Liu Linxun and Wu Xinming	MEM
P-050	4010	ANALYSIS OF RISK FASTORS ASSOCIATED WITH PROTEINURIA IN PATIENTS WITH OBSTRUCTIVE SLEEP APNEA–HYPOPNEA SYNDROME IN HIGHALTITUDE AREA	Feng Mei and Huijie Zhong	MEM
P-051	4013	EFFECTS OF 300 AND 1500 m ALTITUDE ON CARDIOVASCULAR RESPONSES DURING APNEA	Eric Mulder, Pontus Holmström, and Erika Schagatay	MEM
P-052	3905	EXPRESSION OF MERLIN PROTEIN IN FEMALE CERVICAL CANCER OF HAN, TIBETAN, AND HUI NATIONALITIES IN QINGHAI	Zhang Jianqing, Wei Chunmei, Yang Xing, Zhang Man	TM
P-053	4035	STUDY ON THE CORRELATION BETWEEN VASCULAR LESIONS AND COGNITIVE FUNCTION IN NATIVE TIBETAN WITH H- TYPE HYPERTENSION IN PLATEAU	Yinglan Li and Shizheng Wu	MEM
P-054	4060	PREHOSPITAL TIMES AND CLINICAL CHARACTERISTICS OF SEVERE TRAUMA PATIENTS: A COMPARISON BETWEEN MOUNTAIN AND URBAN/SUBURBAN AREAS	Simon Rauch	MEM
P-055	4063	A USER FRIENDLY MOTHER AND CHILD HEALTH HAND BOOK CAN EMPOWER PREGNANT MOTHERS TO IMPROVE PREGNANCY OUTCOME AND CHILD CARE: A CROSS-SECTIONAL STUDY IN A SECONDARY LEVEL CARE HOSPITAL IN LADAKH (Alt. 2800–4500 m) 2015–2018	Tsering Lhadol, Tsering Norboo, Tsering Stobdan, Padma Dolma, Khatisha Bano, Ayesha Malo, Spalchen Gonbo, Rinchen Wangmo, Tsewang Chorol, Norboo Angchuk, Tsering Dolma, and Noney Wangchuk	MEM
P-056	4069	EVALUATION OF 90-DAY OUTCOME AND SLEEP QUALITY IN PATIENTS WITH NONDISABLING ISCHEMIC CEREBROVASCULAR EVENTS AT HIGH ALTITUDE	Quanzhong Hu	MEM
P-057	4070	CLINICAL RESEARCH ON INTRAVENOUS HYDRATION AND ORAL HYDRATION OF PLATEAU AREA PATIENTS IN PREVENTION OF POSTOPERATIVE CONTRAST AGENT NEPHROPATHY WITH CORONARY INTERVENTION	Baoxia Liao, Wei Nian, Aiqi Xi, and Maowei Zheng	MEM

P-058	4090	CHALLENGES AND APPLICATIONS FOR	Rachel Turner, Hannes	MEM
		ADVANCED MEDICAL MONITORING IN	Gatterer, Anna Vögele,	
		EXTREME ENVIRONMENTS	Nikolaus Netzer, Sandro	
			Malacrida, Hermann	
			Brugger, and Giacomo	
			Strapazzon	
P-059	4092	SUCCESSFUL USE OF AMLODIPINE FOR	Abhyu Ghimire, Nicholas	MEM
		HIGHALTITUDE PULMONARY EDEMA IN	Mason, and Ken Zafren	
		PATIENTS WITH LOW SYSTOLIC BLOOD		
		PRESSURE		
P-060	3988	EXPOSURE TO HIGH ALTITUDE: A POSSIBLE	Iti Garg, Swati Srivastava,	MEM
		RISK FACTOR FOR VENOUS	Chhavi Rai, Babita Kumari,	
		THROMBOEMBOLISM	Vinay Kumar, Lilly Ganju,	
			and Bhuvnesh Kumar	
P-061	4074	EFFECTS OF TIBETAN HERB, RHODIOLA	YuJuan Qi	HAP
		ALGIDA, ON PROLIFERATION AND HIF-1a		
		AND HIF-2a EXPRESSION IN MCF-7 CELLS		
		UNDER HYPOXIA IN VITRO		
P-062	4075	EFFECTS OF HYPOXIA, HYPERCAPNIA, AND	Giacomo Strapazzon,	HAP
		HYPOTHERMIA ON CEREBRAL	Gabriel Putzer, Miriam Dal	
		OXYGENATION: A PROSPECTIVE PORCINE	Mulino, Patrick Braun,	
		STUDY	Tomas Dal Cappello,	
			Raimund Helbok, Markus	
			Falk, Peter Mair, and	
			Hermann Brugger	
P-063	4077	HEMOGLOBIN CONCENTRATION, PULSE,	Cynthia Beall, C. Jeong, D.	HAP
		AND LIFETIME REPRODUCTIVE SUCCESS	Witonski, B. Basnyat, M.	
		AMONG ETHNIC TIBETANS AT HIGH	Neupane, G. Childs, S. Craig,	
		ALTITUDES IN NEPAL	J. Novembre, and A. Di	
			Rienzo	
P-064	4086	CONSIDERATIONS FOR ENHANCED	Giacomo Strapazzon, Rachel	HAP
		DELINEATION OF THE PHYSIOLOGICAL	Turner, Sandro Malacrida,	
		IMPACT OF HIGHALTITUDE STRESSORS	Marika Falla, Hannes	
			Gatterer, Nikolaus Netzer,	
			Tomas Dal Cappello, and	
			Hermann Brugger	
P-065	4087	HUMAN PHYSIOLOGY DURING EXPOSURE	Rachel Turner, Lucrezia	HAP
		TO CAVE ENVIRONMENT: A SYSTEMATIC	Zuccarelli, Loredana	
		REVIEW AND POTENTIAL FUTURE	Bessone, Letizia Galasso,	
		IMPLICATIONS FOR HYPOBARIC CHAMBER	Emily Coffey, and Giacomo	
D 000	4004	RESEARCH	Strapazzon	
P-066	4091	URINARY PHYSIOLOGY AT ALTITUDE:	Vittore Verratti, Simona	НАР
		EFFECT OF A MODERATE HYPOXIA ON	Mrakic-Sposta, Manuela	

		SYMPATHOVAGAL BALANCE AND	Moriggi, Alessandro Tonacci,	
		URODYNAMIC PARAMETERS	Lorenza Pratali, Suwas	
			Bandhari, Danilo Migliorelli,	
			Guido Giardini, and Paolo	
			Cerretelli	
P-067	0003	EFFECT OF ALTITUDE VARIATIONS ON	Ishani Sanjay Ghotikar,	HAP
		CARDIORESPIRATORY PARAMETERS	Keren Susan Cherian, and	
		AMONG TREKKERS TO THE INDIAN	Venkata Ramana	
		HIMALAYAS	Yagnambhatt	
P-	3999	INFLAMMASOME PATHWAY PLAYS AN	Prasanna Reddy, Gidgu	HAP
068		IMPORTANT ROLE IN PATHOPHYSIOLOGY	Himashree, Ekta Kohli, Amit	
		OF HIGH ALTITUDE INDUCED PULMONARY	Baidya, T.C. Kain, Lokesh	
		HYPERTENSION	Rai, Tsering Norboo, Ambuj	
			Roy, Archna Singh, Usha	
			Panjuwani, Shashi Bala	
			Singh, and Bhuvnesh Kumar	
P-106	4054	STUDY ON CEREBRAL HEMODYNAMICS OF	YuanYuan Bao and Haihua	HAP
		CHRONIC MOUNTAIN SICKNESS WITH MR	Вао	
		PERFUSION		
P-107	3864	WINCH INSERTION OF AN	Sven Christjar Skaiaa	MEM
		INTERDISCIPLINARY RESCUE TEAM IN		
		COMPLEX SEARCH AND RESCUE		
		OPERATIONS		
P-108	3953	ROCK CLIMBING TOURISTS - AN AT RISK	Bebbington, Emily	MEM
		GROUP FOR TRAUMATIC INJURIES IN LOW		
		AND MIDDLE INCOME COUNTRIES		
P-111	3954	RABIES AND ROCK CLIMBING - A CALL FOR	Bebbington, Emily	MEM
		ROCK CLIMBING SPECIFIC TRAVEL HEALTH		
		INFORMATION		

DAY 3: HIGH ALTITUDE AND TRAVEL MEDICINE (37)

Poster	Abstract	Abstract title	Authors	Under
no.	no.			
P-069	3859	KOROS [*] KA 8000 HIMALAYAN EXPEDITION:	Jurij Gorjanc, Adam	TM
		DIGIT RESPONSES TO COLD STRESS AFTER	McDonnell, Igor Mekjavic,	
		ASCENT TO BROAD PEAK (PAKISTAN, 8051	and Shawnda Morrison	
		M)		
P-070	3866	ARE THE EIGHT-THOUSANDERS PRONE TO	Kristina Hoschlova	TM
		BECOME MENTALLY RETARDED?		
P-071	3867	MAY BE TRIPS TO ALTITUDE BENEFICIAL	Kristina Hoschlova and	TM
		FOR PSYCHIATRIC PATIENTS?	Dorothee Berguet	

P-072	3871	WHOLE BRAIN COMPUTED TOMOGRAPHY PERFUSION OF PATIENTS WITH VARYING DEGREES OF HIGH-ALTITUDE POLYCYTHEMIA: PRELIMINARY STUDY WITH A MULTIDETECTOR COMPUTED TOMOGRAPHY	Yanqiu Sun, Junjie Hu, and Yonghai Zhang	ТМ
P-073	3877	CORPORAL COMPOSITION, OXYGEN CONSUMPAU25 c TION, AND [hsPCR] IN MINERS FROM 0 TO 2500 m	Fernando Moraga, Andrés Pedreros-Lobos, and Rodrigo Calderon-Jofre	ТМ
P-074	3897	AVIATION ACCIDENTS IN THE AUSTRIAN ALPS: A RETROSPECTIVE 10-YEAR NATIONAL REGISTRY STUDY	Mathias Ströhle, Bernd Wallner, Simon Woyke, Monika Maeder Brodmann, Simon Rauch, Hermann Brugger, and Peter Paal	ТМ
P-075	3901	DEVELOPMENT OF A SMARTPHONE APPLICATION TO ASSESS AND GUIDE TREATMENT OF ACUTE MOUNTAIN SICKNESS BY TELEMEDECINE IN THE SWISS ALPS	Niels Holthof, Pierre Métrailler, Deborah Glassey-Previdoli, Alexandre Cotting, Florence Selz, Matthieu De Riedmatten, and Guénolé Addor	ТМ
P-076	3909	ULTRASOUND-GUIDED PERCUTANEOUS MICROWAVE ABLATION FOR HEPATIC ALVEOLAR ECHINOCOCCOSIS: A PRELIMINARY STUDY	Guo Jianqin	ТМ
P-077	3910	DIFFERENCE IN COMMUNICATION STYLES OF WESTERN TEACHERS AND NEPALESE LEARNERS IN AN INTERCULTURAL FACULTY DEVELOPMENT PROGRAM FOR MOUNTAIN RESCUERS IN NEPAL	Raphael Saghir, Matiram Pun, Elzbieta Agnieszka Stawinoga, Aristomenis Exadaktylos, Giacomo Strapazzon, Hermann Brugger, and Monika Maeder Brodmann	ТМ
P-078	3917	STUDY ON SUSCEPTIBILITY OF TUBERCULOSIS AND GENE POLYMORPHISM IN TIBETAN POPULATION IN CHINA	Qunying Hu	ТМ
P-079	3938	ELEVATION IN ALTITUDE LEVERAGES PHYSIOLOGICAL AND GENETIC ASPECTS	Samantha Sharma, Ghulam Mohammad, Tashi Thinlas, and Qadar M.A. Pasha	ТМ
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		CHILDREN IN QINGHAI PROVINCE		
P-102	0005	LOSARTAN HAS NO EFFECT ON THE	JP Delamere, AR Bradwell,	ТМ
		HYPOXIC DIURETIC RESPONSE TO	SB Bradwell, C Lewis, A	
		ALTITUDE	Clarke, C Newman, K Joyce	
P-103	4050	CTA EVALUATION OF CEREBROVASCULAR	Huiying Hu and Haihua	ТМ
		COLLATERALS IN NORMAL ADULTS AT	Вао	
		ALTITUDE		
P-104	3965	PREVALENCE AND RISK FACTORS OF H-	Bian, Huiping; Wang,	ТМ
		TYPE HYPERTENSION IN QINGHAI-TIBET	Xiaozhou	
		PLATEAU		
P-105	4066	COMPARISION OF PULMONARY ARTERIAL	Wang, Xiaozhou Bian,	ТМ
		PRESSURE AFTER TRANSCATHETER	Huiping Xu, Xiaolong	
		CLOSURE FOR PATENT DUCTUS		
		ARTERIOSUS ASSOCIATED WITH SEVERE		
		PULMONARY HYPERTENSION BETWEEN		
		TIBETAN AND HAN PATIENTS		

6. Scholarship campaign

International conferences provide learning and networking opportunities. However, many of these conferences are beyond the financial reach of many young medical students and doctors. This time, the twelfth iteration of the World Congress on Mountain Medicine is being organized in the heart of the Himalayas. It was felt that due to the international nature of this revolving congress, many young medical students and doctors from all over the world, including Nepal, may have difficulty in participating in the congress, despite the highly subsidized fees especially for participants from low- and middle-income countries. Realizing this, Dr. Maniraj Neupane organized a closed fundraising campaign starting with his own pledge with an overall goal to provide scholarships to up to 100 deserving medical students, young doctors and researchers from all around the world. The campaign was promptly endorsed by the International Society of Mountain Medicine (ISMM) which offered to match the equivalent amount raised up to 10,000 USD. As of 3rd Nov 2018, Dr Neupane was able to raise 19,002 USD from generous donors who believed in this cause, along with the equivalent match from the ISMM.

This fund raised is used to provide scholarships to 13 international and 77 local Nepalese medical students and young doctors selected by the independent team of reviewers. 182 applicants completed an online scholarship application and submitted essays on how attending this conference would benefit them. These essays were marked by team of independent reviewers, led by Dr. Subarna Adhikari and Dr. Suman Acharya, who selected the following scholarship recipients.

6.1 Donors

We would like to express our sincere gratitude to the generous contributors to this campaign, listed in the chronological order they donated.

S.N.	Donated By	Amount in USD
1.	Maniraj Neupane	150
2.	John McCall	2500
3.	Anonymous 1	1000
4.	Eric Swenson	500
5.	Pritam Neupane	520
6.	Paul Auerbach	150
7.	Sagar Panthi	100
8.	Siddhartha Yadav	50
9.	Anonymous 2	100
10.	Andrew Luks	100
11.	Ken Zafren	500
12.	Hermann Brugger	1180
13.	ICIMOD	500
14.	CIWEC	500
15.	George Rodway	150
16.	Scott McIntosh	100
17.	Sanjay Yadav	300
18.	Sushil Pant	150

19.	Smith Giri	50
20.	Linda Keyes	100
21.	Anonymous 3	200
22.	Reto Pezzoli	500
23.	Bikash Bashyal	51
24.	Simant Thapa	50
25.	ISMM 100% Match	9501
	TOTAL as of 11/03/2018	19002

6.2 Scholarship recipients

SHORTLISTED INTERNATIONAL CANDIDATES

Registration fee discount provided				
S.N	Name	Country		
1.	Alex Whynot	Canada		
2.	Elina Christes	Switzerland		
3.	Ellen Asselin	USA		
Registrati	Registration fee waived and accommodation provided			
4.	Kavita Sharma	India		
5.	Manjaula Miglaini	India		
6.	Mukul Mittal	India		
7.	Priya Gaur	India		
8.	Snigdha Shaw	India		
9.	Sweetbert Ndebea	Tanzania		
Registrati	Registration fee waived			
10.	Tshering Palmo	India		
11.	Astha Mishra	India		
12.	Manjari Rain	India		
13.	Sulagna Bhattacharya	India		

SHORTLISTED NEPALI CANDIDATES (Registration fee waived)

S.N	Name	Country:	
1.	Aaditya Gautam	Nepal	
2.	Aakar Thapa	Nepal	
3.	Aashna Bhandari	Nepal	
4.	Aastha Ghimire	Nepal	
5.	Aavash Mishra	Nepal	
6.	Abhisekh Kharel	Nepal	
7.	Abhishek Sharma	Nepal	
8.	Abhyu Ghimire	Nepal	
9.	Abishkar Thapa	Nepal	
10.	Akhanda Upadhaya	Nepal	
11.	Amit Sharma Nepal	Nepal	
12.	Anil Hona	Nepal	
13.	Anirudra Devkota	Nepal	
14.	Anish Bhattarai	Nepal	
15.	Anjan Bhattarai	Nepal	
16.	Anmoll Khadka	Nepal	
17.	Archana Kharel	Nepal	
18.	Ashish Tiwari	Nepal	
19.	Ashmita K.C	Nepal	
20.	Ayusha Poudel	Nepal	
21.	Badri Aryal	Nepal	
22.	Bibek Dhital	Nepal	

	1	
23.	Bidit Bhattarai	Nepal
24.	Binam Bhandari	Nepal
25.	Biplav Adhikari	Nepal
26.	Biplov Adhikari	Nepal
27.	Deepak Sharma	Nepal
28.	Dipak Mishra	Nepal
29.	Gaurav Nepal	Nepal
30.	Hem Paudel	Nepal
31.	Indira Devkota	Nepal
32.	Ishu Shrestha	Nepal
33.	Jenisha Upadhay	Nepal
34.	Kabita Pathak	Nepal
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Ramesh Balayar	Nepal
Ruby Shrestha	Nepal
Sachin Subedi	Nepal
Sachit Devkota	Nepal
Sagun Dawadi	Nepal
Samata Baral	Nepal
Sandesh Gyawali	Nepal
Sangeeta Poudel	Nepal
Sanjiv Sudarshan Bhandari	Nepal
Sanju Bhatta	Nepal
Santosh Dev	Nepal
Saral Lamichhane	Nepal
Sarita Basnet	Nepal
Saroj Kumar Jha	Nepal
Saroj Paudel	Nepal
Satyam Mahaju	Nepal
Shodip Shrestha	Nepal
Soumya Pahari	Nepal
Subash Pandey	Nepal
Subash Sapkota	Nepal
Subodh Sharma Paudel	Nepal
Suju Bhattarai	Nepal
Suman Paudel	Nepal
Sunil Gyawali	Nepal
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73.	Suraj Kandel	Nepal
74.	Suraj Shrestha	Nepal
75.	Sushan Homagain	Nepal
76.	Yashashwi Shrestha	Nepal
77.	Yugand Khand	Nepal

Impressum

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Linguistic revision

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