

5th International Conference on Biomedical, Biopharma and Clinical Research8th World Summit on Virology, Microbiology & Infectious Disease, Immunology

July 14, 2022 | Webinar



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Biomedical engineering technical support on oxygen therapy equipment and devices during COVID-19 in Nepal

Nepal was facing rapid increase of COVID-19 pandemic in the country due to second wave of pandemic in India and huge influx of Nepalese working in India are coming back to Nepal. There was sharp increase of cases and about 45% of the tested cases were identified COVID-19 positive and many cases were moderate to severe due to the new Delta variants. Due to high number of cases need oxygen support, all hospital beds were fully occupied with COVID-19 patients and there was huge demand of oxygen in the hospitals which was not manageable in the current capacity of hospitals. The demand of oxygen was much higher than the current production capacity and similarly increased demand of the ICU beds.

Most of the hospitals in Nepal do not have biomedical engineers and in this critical situation, breakage of oxygen support system in any hospital is life threatening to the COVID-19 critical cases, therefore, UNICEF Nepal seeks partnering with a biomedical technical organization championing in oxygen support system to the hospitals and isolation centers. Biomedical team have done rapid need assessment in COVID-19 designated health facilities, a functional help desk was established, spare parts, consumables and devices were arranged and supplied along with the technical supervision, conducted application training

of medical equipment to healthcare workers and team mobilized to repair, maintain in order to bring all the available critical medical equipment functional with full capacity without interruption and timely repair and maintenance of these equipment was crucial to save the lives of critical COVID-19 patients.

Biography

Bikash B Shrestha, PEng is renowned Senior Biomedical Engineer in Nepal and his contribution to the Biomedical Engineering Field in the country is quite invaluable and remarkable, He is Associate Professor and Department Head in Department of Electrical Engineering at Advanced College of Engineering & Management, Tribhuvan University, where he has been since 2016. He also had written "a Course Manual Book on Biomedical Instrumentation". He received a BSc Engineering from Bangladesh University of Engineering & Technology in 1993. He received his MTech. in Biomedical Engineering from the Indian Institute of Technology (IIT) India in 2001. From 1994 to 2016 he worked at Shree Birendra Hospital, Nepal Army in Kathmandu Nepal, eventually as a Senior Biomedical Engineer. He is First Professional Engineer in Biomedical Engineering in Nepal. Also, he was awarded "Distinguished Entrepreneur Award" by Former Prime Minister Honorable Shri. J. N Khanal on 57th Engineers Day organized by Nepal Engineering Association on July, 2019.

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Rashmi Sharma

Samrat Prithviraj Chauhan College, India

Beneficial viruses: A review with special reference to Rajasthan

Despite Epidemic and Pandemic causing viruses beneficial viruses also Exist. Bacteria, Fungus, Plants and Animals have beneficial viruses. Polydna viruses are endoparasite in wasps. Endogenous retroviruses are also beneficial. Killer viruses in yeasts are also beneficial.

Fungal viruses and plant viruses give thermal tolerance and drought tolerance to plants. Oncolytic viruses Adenoviridae, Herpesviridae, Pavoviridae, Reoviridae, Picornaviridae, Poxviridae are anticancer agents. Phage viruses are also beneficial as they eat Harmful Bacteria as Tectiviridae, Rudiviridae, Microviridae, Inoviridae are some examples of Phage viruses.

Arc gene Virus: In our brain is important and essential for learning. GBV C (Hepatitis G Virus), slows down HIV Virus. Noro Virus is causative agent of diarrhea epidemic in Ships; some strains of V are very useful to normalize mice grown in microbe free environment. Ancient Retrovirus Endogenous retro V has helped to evolve placenta in Mammals. Endogenous RetroVirus (ERV) Due to ERV mutations in genetic code occurred so mamm can give live birth.

Gamma Herpes Virus: Herpesviruses subfamily Gamma herpes virinae, Herpes simplex virus type I and type II cause genital herpes and cold sores and genital herpes . Gammaherpesvirus (MHV-68) Enhance resistance to infection with *Listeria monocytogenes*. (Food poisoning bacteria).

Cowpox: Cowpox spread from cows to milkmen. Inoculation persons with cowpox sores material, eradicate smallpox. Adenovirus cause Pneumonia, Bronchitis, Croup cold, stomach infections (HADV S2) binds to carbohydrate of cancer cells ,used for cancer therapy.

Biography

Rashmi Sharma is Associate Professor Samrat Prithviraj Chauhan Government College, India. She has 28 years teaching and Research experience. She has published more than 30 papers in International journals. She has attended more than 70 International and national conferences. 8 students have completed MPhil under her guidance. 5 Students are doing PhD under her guidance. 2 completed under her guidance. 1 candidate Awarded PhD degree under guidance. She is author of 20 books.

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Huang Wei Ling

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Energy alterations in patients with asthma

Introduction: According to Western medicine, Asthma is a chronic disease characterized by narrowing of the airways, inflammation and hyper responsiveness to specific triggers such as allergens, viruses and exercises. Purpose of this study is to demonstrate that patients with asthma has energy deficiency inside the five internal massive organs (Heart, Spleen, Lungs, Kidney and Liver) and the organ that is causing difficult in sleeping is the lack of energy of the Kidney energy and not the Lung according to Traditional Chinese Medicine. Methods: through two cases reports of patients with Asthma diagnosis (the first is a 72-year-old and the second is a 48 years-old, both were females' patients. It was measured the energy of the five internal massive organs using a crystal-pendulum.

Results: the results of these five internal massive organs measurements were that all the five organs were in the lowest level of energy (rated one out of eight). The treatment consisted in Chinese dietary counseling, auricular acupuncture with apex ear bloodletting and systemic acupuncture. It was replenished the internal energy using highly diluted medications according to the theory Constitutional Homeopathy of the Five Elements Based on Traditional Chinese Medicine and crystal-based medication. The patients improved from their dyspnea symptoms after

the treatment instituted but still in taking the medications to replenish the energy for the whole life. Conclusion of this study is to demonstrate that patients with Asthma have energy deficiency inside the five internal massive organs and the main organ affected in this case is the Kidney and not the Lungs and the treatment of this condition will improve very much the Asthma symptoms treating the root of the cause (not only treating the symptoms) and without using any bronchodilator.

Biography

Huang Wei Ling, born in Taiwan, raised and graduated in medicine in Brazil, specialist in infectious and parasitic diseases, a General Practitioner and Parenteral and Enteral Medical Nutrition Therapist. Once in charge of the Hospital Infection Control Service of the City of Franca's General Hospital, she was responsible for the control of all prescribed antimicrobial medication and received an award for the best paper presented at the Brazilian Hospital Infection Control Congress in 1998. Since 1997, she works with the approach and treatment of all chronic diseases in a holistic way, with treatment guided through the teachings of Traditional Chinese Medicine and Hippocrates. Researcher in the University of Sao Paulo, in the Ophthalmology department from 2012 to 2013. Author of the theory Constitutional Homeopathy of the Five Elements Based on Traditional Chinese Medicine. Author of more than 100 publications about treatment of variety of diseases rebalancing the internal energy using Hippocrates thoughts.

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