

Virtual exhibition for Medical Related Technologies

4th Virtual Exhibition - 9th November 2021 at 9.30 am

On-line via Microsoft Teams

Presenter		Topic	Please mark your interest (x)
University	Product Category	Product & Innovative feature	
University of Colombo	Ayurveda Herbal Medicine	Clinically proven herbal sachet for Allergic rhinitis	
	Ayurveda Herbal Medicine	Clinically tested Ayurveda herbal solution for fibroids management	
	Herbal Medicine	A novel polyherbal formulation for effective wound healing	
University of Jaffna	Electronic	Automated Handwashing Station <ul style="list-style-type: none"> ▪ Reduced Water wastage ▪ Regulated Handwashing time (customizable) ▪ Organized discharge of water, liquid soap and water when hands are brought under. ▪ Production cost is much less than already available system. 	
	Accessory	Customized Face Mask <ul style="list-style-type: none"> ▪ Lack of face shields and face masks (N95) for healthcare workers ▪ Customized and comfortable 3-D printed face mask ▪ Proper standardization (safety and comfort) ▪ Optimization (cost-effectiveness) ▪ Simplified filter noses (with N95 filters) ▪ Exhale valves which can be disinfect with ease ▪ Low-cost - viable replacement of N95 masks 	
	Prevention device	Gravid Female Mosquito Trap <ul style="list-style-type: none"> ▪ Strategy: Prevent mosquito human contact ▪ Portable simple efficient trap will attract gravid mosquitoes and kill them ▪ Also reduce mosquito population as gravid females are attracted and prevented from egg-laying 	
University of Sri Jayewardenepura	Surgical, Medical apparatus and instruments	Smooth lateral patient transfer device This apparatus provides a convenient and safe transfer mechanism using a movable mattress and a roller system affixed to the apparatus, which can be operated by a single person.	

	Methods for preserving Human body cross-sections.	A method to preserve human tissues by room temperature resin casting: An effective teaching tool in human Anatomy. In this invention, highly dehydrated human tissues/organs are embedded in a uniformly distributed synthetic resin.	
	Methods for making Skelton specimen	In-Vitro Preparation of Dry Bones from Remnants of Cadaver Dissections. The new invention helps to develop real human bones in a small space from the cadaver waste and easily adaptable to any medical faculty with the use of few resources.	
	Chest Physiotherapy	Mobile chest physiotherapy machine which can be operated by a single person using a mobile application	
	Surgical	Aerovacaerosol evacuation chamber with an exhaust mechanism- Which can be used to perform, nasal endoscopy, bronchoscopy, UGUE, trachostomy (aerosol generating procedures)	
University of Kelaniya	Diagnostic	Vacuum manifold for column-based DNA/RNA extraction. An improved vacuum manifold structure for processing multiple chromatography samples by solid phase extraction using individually packed column chromatography columns.	
University of Moratuwa	Bio Medical application	Alteranating pressure therapy using miniaturized air bladders for the treatment of pressure ulcers	
Open University of Sri Lanka	Surgical	Device with Catheter tube and external Public Bladder	
	Surgical	Auto Mad Low Aresole COVID-19 Brush	
University of Peradeniya	Construction of Shielding Material for Radiation Protection	Radiation protection in radiation therapy	
	A method of deactivating anti-clotting agents used in blood feeding by parasites or insects	Mosquito repellent method	

	Protective anti-kicking belt for restraining of ungulates	Veterinary practice	
	Durable and guided surgical suture practice block	surgical suture practice block	
Uva wellassa University of Sri Lanka	Portable electronic based diagnostic device	<p>The purpose of this innovation is to detect the microbial count in drinking water.</p> <p><i>Unique selling proposition and innovative features:</i></p> <p>Generally, in Sri Lanka, drinking water quality is measure by analyzing Coliform bacterial count. Usually, it was done in laboratories via conventional culture and isolation methods which usually takes at least 2 to 3 days. This innovation will be helpful in any kind of place which we want to test the drinking water safety without laboratory facilities within a very short period (commonly available stain to enumerate bacteria in real time less than one minute), thus it's more efficient than testing the quality of water via Coliform bacterial count.</p> <p>This innovation does need trained personnel and it's easy to be stored and carrying, having real time monitoring of bacterial count, and low cost of production.</p> <p><i>Cost effectiveness of the solution:</i></p> <p>This innovation does not require any conventional microbiological culturing tools and reagents.</p> <p>Also it does not require any special laboratories and storage facilities. Therefore, it saves lots of money and time which spend to test the water quality in Sri Lankan laboratories, particularly in Water Boards, aqua culture, food processing industries and other facilities where water quality measurement is a must.</p> <p>Since this innovation can produce at a low cost, it can also be used by households to detect their own drinking water quality.</p>	
Wayamba University of Sri Lanka	Diagnostic	Universal Point of care reader for strip-based diagnosis	
	Diagnostic/wearable	Portable pulse oximeter	

	Diagnostic	Cholesterol measurement device	
Rajarata University of Sri Lanka	Diagnostic	Smart pulse Oximeter	
	Medicinal	Anti- acne herbal formula	
	Medicinal	Antidandruff and purifying hair spray using plant extracts	
Non-state HEI			
CINEC Campus	Wearable Apparatus for Clubfoot Treatment Monitoring, Muscle Strengthening and Correction	<p>Wearable Apparatus for Clubfoot Treatment Monitoring, Muscle Strengthening and Correction</p> <p>Features</p> <ol style="list-style-type: none"> 1. It generates & stores graphical analysis of gait, correct step count, the pressure distribution of foot and ankle range of motion measurements and muscle response measures. 2. It provides electric stimulation through a customizable wiring system connected to the Microcontroller Unit (MCU) to reach predetermined muscle groups or motor points and programmable to the prescribed pattern of electrical impulses. 3. It is customizable to monitor the progress or treatment with or without the electrical stimulation when walking or standing. 	
	Gait Analysis Based Lower Body Corrective Orthotic System	<p>Gait Analysis Based Lower Body Corrective Orthotic System</p> <p>A system that analyses the movement of a patient's lower body in real time using a motion capture system by using computer vision and comparing it to the data captured from a healthy specimen to create and control a corrective prosthetic device/system.</p> <p>Features</p> <ol style="list-style-type: none"> 1. Lower Body Joint Angle Recognition System 2. Multibody Simulation and Analysis of Gait to Identify Gait Disorders 3. Gait Pattern Visualization and Joint Kinetic Based Rehabilitation 4. Lower Body Orthotic System 	

	Intensive Care Ventilator for COVID-19 Outbreak	<p>Intensive Care Ventilator for COVID-19 Outbreak</p> <p>A design of a low cost and fully functional ventilator.</p> <p>Features</p> <ol style="list-style-type: none"> 1. Ability to be produced in large numbers in short notice using local available parts or locally produced reliable parts 2. Integrated with essential safety alarms 3. Ability to operate by a less trained staff with only 4 parameters like Tidal volume, respiratory rate, PEEP and FiO2 4. Optimised software and firmware to avoid lack of component availability. 	
	Robotic Arm for Hospital Helpers	<p>Robotic Arm for Hospital Helpers</p> <ol style="list-style-type: none"> 1. High accuracy through Electromyography (EMG) controlling based on brain signal capturing 2. Ability to treat patients by remote controlling of a robotic arm 	
KIU	Herbal shampoo	<p>Product formulation of 09 different scientifically proved herbal extractions</p> <p>Contain essential nutrients, hair thickening, strengthening, anti-dandruff properties and support acceleration of hair growth</p>	
	Hair Nourishing Treatment	<p>100% herbal product formulation developed with natural ingredients with no parabens, silicon, or sulphates</p> <p>Product contains herbal ingredients that enhance blood circulation, keratin production of hair follicles and enhance new hair growth.</p> <p>Product ingredients balance scalp pH and contain anti dandruff properties.</p>	

	Skin and hair nourishing treatment	<p>Parabens, silicon, sulphates free 100% all-natural formula with high-quality organic ingredients Product contains antibacterial and anti-inflammatory properties that reduces acne, rashes, pimples and blemishes. Product stops the harmful effects of free radicals that damage and degrade skin. Product increases blood circulation and maintains a healthy scalp. Helps in strengthening the hair follicles from within.</p>	
SLIIT	Diagnostic	<p>InCOV chamber</p> <p>An intelligent chamber to identify potential COVID-19 patient by considering 4 common symptoms.</p> <p>Features:</p> <p>Check for Anosmia (Loss of smell) Check for fever</p> <ol style="list-style-type: none"> 1. Check if the force cough of a person is resembling with the cough of a COVID-19 patient's cough. 2. Check for shortness of breath. 3. Identify if the person entering the chamber is a possible COVID-19 patient <p>Impact: This approach is primarily designed to address the issue of being unable to detect potential COVID-19 suspects at a company's or organization's entrance. At the moment, just the body temperature is examined at these types of entrances, despite the fact that COVID-19 positive people can have no signs of high body temperature or the fact that they even be asymptomatic. This product will address this by evaluating four most common COVID-19 symptoms.</p>	

	Panacea's Medi-Belt (Electronic)	Panacea's Medi-Belt is the First Sri Lankan Engineered Wearable Ambulatory ECG Monitoring Medi-Belt to receive the approval from the National Medicine Regulatory Authority in Sri Lanka. The medi-belt can capture the ECG of a person in a Realtime environment and then analyzing it for cardiac abnormalities. The Cardiac Abnormality Monitoring System that we have developed can alert the patient in the presence of a cardiac emergency.	
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We are interested in contacting the Universities marked above to obtain further information.

Name of Company

Address

Contact Officer

Designation

E-mail Mobile

Date