



श्री चित्रा तिरुनाल आयुर्विज्ञान और प्रौद्योगिकी संस्थान, त्रिवेन्द्रम
SREE CHITRA TIRUNAL INSTITUTE FOR MEDICAL SCIENCES AND TECHNOLOGY, TRIVANDRUM
THIRUVANANTHAPURAM - 695 011, KERALA, INDIA
(एक राष्ट्रीय महत्त्व का संस्थान, विज्ञान और प्रौद्योगिकी विभाग, भारत सरकार)
(An Institution of National Importance, Department of Science and Technology, Government of India)
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TIME BOUND
PARLIAMENT QUESTION

Sub: Request for inputs i.r.o admitted Rajya Sabha Question No. 2348 (Dy No. S4650) for 21.03.2023 regarding "Study on post Covid complications" - reg.

Question

- Whether any report by the ICMR is published after undertaking studies on post Covid sequelae in Indian population;
- If not, the reasons therefor;
- Whether there is an estimate of the amount of Indian citizens suffering from long Covid like breathing issues, memory fog etc;
- If so, the steps taken and schemes by Government to help those who are suffering;
- Whether there has been a study on the number of deaths due to post covid complications like heart attacks or heart inflammations, etc; and
- If not, the reasons therefor?

Answer

Achutha Menon Centre for Health Science Studies (AMCHSS) in Sree Chitra Tirunal Institute for Medical Sciences and Technology, Trivandrum (SCTIMST) is planning to undertake a study on long covid in collaboration with Indian Medical Association (IMA) which is in the initial stages of planning.

In addition to this, the list of Covid-19 technologies developed/ transferred in this Institute and the details of Covid related studies in the Institute are attached as Annexure-I and Annexure-II respectively.

Date: 16.03.2023



निदेशक / Director 16-3-23
श्री चित्रा तिरुनाल आयुर्विज्ञान और प्रौद्योगिकी संस्थान
DIRECTOR
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Details of Covid-19 Technologies developed /Transferred				
Sl. No.	Title	Brief Description	Usage	Any other information
1	Multiplex RT PCR kit which targets two SARS COV2 genes RdRp and ORFb-nsp14 and the human RNase gene as the internal control	Chitra SARS CoV 2 multiplex RT-PCR kit is to identify the novel SARC CoV2 virus genes RdRp gene and ORF1b-nsp14 gene in human nasopharyngeal swab sample using reverse transcription real-time polymerase chain reaction. This kit is helpful in the fast detection of the novel coronavirus disease.	For COVID testing	Technology transferred to M/s HuwellifesciencesPvt Ltd, Hyderabad and M/s Meril Diagnostics Pvt Ltd, Vapi
2	Chitra Magna RNA Isolation Kit	<ul style="list-style-type: none"> • Uses innovative technology for isolating RNA using magnetic nanoparticles • Enhances the chances of identifying positive cases. • Can help increase number of tests and bring down its costs 	For COVID testing	Technology transferred to M/s. Agappe Diagnostics Ltd, Kochi
3	Chitra LAMP-N Covid test kit	<ul style="list-style-type: none"> • Confirm SARS- COV2 using (RT-LAMP) • Point of care diagnostic test which detects the N Gene • Validation in progress 	For COVID testing	Technology transferred to M/s. Agappe Diagnostics Ltd, Kochi
4	Automated AMBU ventilator/ respirator	<ul style="list-style-type: none"> • Automated AMBU based ventilator for emergency respiratory support. • Mild to moderate respiratory function • Non-invasive support • Made with locally available material • 5Portable & cost effective 	For therapeutic support	Technology transferred to M/s. Wipro Enterprises Pvt. Ltd. Bangalore

Details of Covid-19 Technologies developed /Transferred				
Sl. No.	Title	Brief Description	Usage	Any other information
5	mediCABdeployable isolation wards, hospitals, ICUs	<ul style="list-style-type: none"> • Deployable isolation hospitals to combat covid19 with four zone strategy. • Co-developed with M/s. Modulus Housing, Chennai. 	For treatment support	Technology transferred to M/s Debrique Creative Labs Private Limited, Chennai
6	Chitra Isolation Pods	<ul style="list-style-type: none"> • Isolation pod device is an enclosure for carrying the COVID-19 infectious patients from one place to another. 	For treatment support	M/s. HMT Machine tools Ltd, Kochi, KSDP, ALappuzha
7	Chitra Swab Collection Booth	swab collection booth is a dual-chamber, glovebox enclosure that provides an engineering line-of-defense for the health worker while collecting swab samples from individuals.	For treatment support	Technology transferred to: <ul style="list-style-type: none"> • M/s. HLL Lifecare, Trivandrum • M/s. Shivapriya Exim, Chennai • M/s. HMT, Kochi • M/s. TVS Supply Chain Solution, Bangalore • JADRO Steel, Kolkata
8	UV based face mask disinfection bin	<ul style="list-style-type: none"> • Ultraviolet (UV) based facemask disinfection bin indicated for disinfecting used facemasks prior to disposal. • Reduces the risk waste collectors being exposed to hazardous waste. 	For infection control	Technology transferred to :M/s. Vivesty Green Recyclers Pvt. Ltd, Kozhikode, M/s. VST Mobility Solutions, Kochi, M/s. Sivapriya Exim Pvt.Ltd, Chennai, M/s PMG equipments Kerala State Drugs & Pharmaceuticals Ltd
9	ChitraAcrylosorb fluid collection system	<ul style="list-style-type: none"> • Solidifies the secretary fluids from infected personnel and disinfects the fluid • Reduces the risk to personnel carrying out waste disposal process. 	For infection control	Technology transferred to M/s. Romsonsscintifics&surgicalspvt ltd

COVID RELATED STUDIES

Dr Divya K.P, Assistant Professor, Department of Neurology, SCTIMST
Dr Ajith Cherian, Associate Professor, Department of Neurology, SCTIMST
Title: FUNCTIONAL MOVEMENT DISORDERS AND PSEUDOSEIZURES DURING THE COVID19 PANDEMIC

Dr JeemonPanniyammakal,
Title: Physical Activity and FiTness behaviours among adults during the COVID19 pandemic (PAFiT): A global survey

Dr Soumya Sundaram, Associate Professor ,Department of Neurology, SCTIMST
Title: COVID 19 ASSOCIATED NEUROLOGICAL MANIFESTATION AT A TERTIARY CARE CENTRE IN INDIA

Dr Sylaja PN, Professor, In charge-Comprehensive Stroke Care Program, Department of Neurology, SCTIMST
Title: COMPARING PRESENTATIONS AND PATTERNS OF STROKE DURING THE COVID-19 PANDEMIC TO THE PRE PANDEMIC PERIOD

Dr. Ajay Prasad Hrishu, Associate Professor, NeuroAnaesthesia Division Dept. of Anesthesiology,SCTIMST
Title: Comparison of the efficacy of virtual airway assessment and physical airway examination as part of the pre-anaesthetic evaluation of patients presenting for neurosurgery with relevance to COVID19 pandemic. A prospective observational study

Dr. Jyothi Vijay MS, Assistant Professor,Department of Cardiology, SCTIMST
Title: IMPACT OF COVID-19 ON HEART FAILURE HOSPITALIZATION AND OUTCOME IN INDIA – ACARDIOLOGICAL SOCIETY OF INDIA STUDY (CSI-HF IN COVID 19 TIMES STUDY – “THE COVID CHF STUDY”

Dr. Mamatha Munaf, Post-Doctoral Fellow in Pediatric Cardiac Anesthesiology, SCTIMST
Title: AN ULTRASOUND-BASED COMPARISON OF POSTOPERATIVE RESPIRATORY OUTCOME AFTER PEDIATRIC CONGENITAL HEART SURGERY IN COVID -19 RECOVERED PATIENTS AND COVID-19 UNAFFECTED PATIENTS-AN OBSERVATIONAL PILOT STUDY

Dr. Sruthi S Nair, Associate Professor, Department of Neurology, SCTIMST
Title: IMPACT OF COVID-19 ON THE FREQUENCY, SPECTRUM AND OUTCOMES OF GUILLAIN-BARRÉ SYNDROME IN INDIA: A MULTICENTRE AMBISPECTIVE COHORT STUDY (EXTENSION STUDY)