Issue No.- 13July - Dec, 2020





DEPARTMENT OF CENTRAL RESEARCH &INNOVATION

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Newsletter Release by Research Advisor



Dear all readers and our staff of Sumandeep Vidyapeeth, we feel it is most appropriate and crucial time to release the 13th issue of this Research Newsletter. The theme of the present issue is "COVID -19 Prevention and Safety Measures".

In this issue, we present information about how to deal, manage and prevent the occurrence of new WHO recognised worldwide disease Coronavirus Disease 2019 (COVID-19). The world is facing huge crisis in terms of human loss.

The social, economic and environmental changes have driven even the superpower nations into new thought process of improving healthcare conditions, to devise new safety measures and preventive strategies to combat COVID-19. With constantly emerging challenges, our team of doctors are ready to handle every situation. I wish these COVID-19 warriors all the best for managing and handling this ever alarming crisis. I hope this newsletter will bring new insights into this disease so that appropriate preventive measures and worthy new information for producing new innovations and research in the healthcare.

Dr. Usha Shah
 Research Advisor. SVDU

From the Desk of Research Director

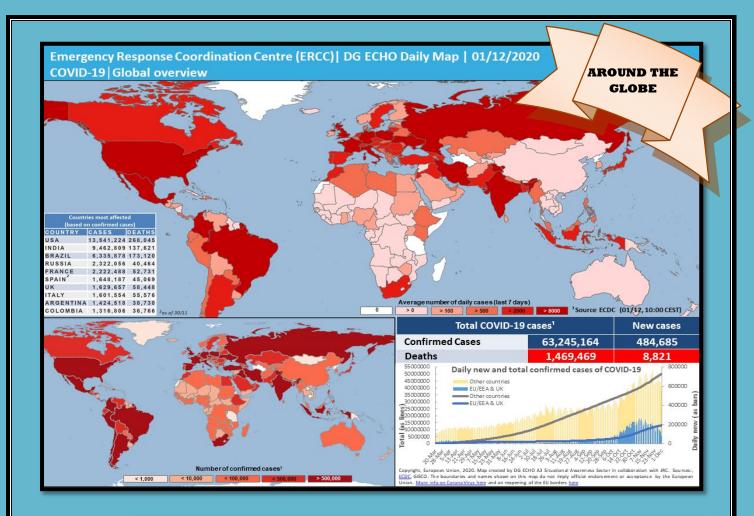


First of all, we wish all the readers, SVDU staff & their families, a safe, fit, happy and healthy life forever. To fulfil the same wish, we present you the 13th issue of this newsletter, which is an attempt to provide you all the safety and preventive or prophylactic measures against COVID-19 to be adopted for living a healthy and safe life ahead.

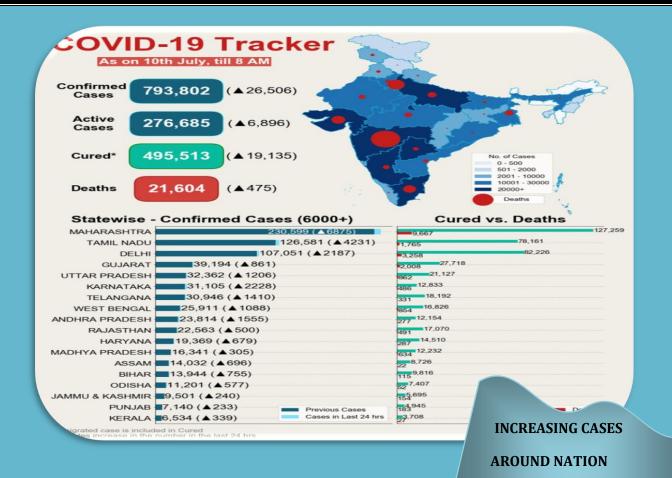
This newsletter provides an update of current situation around the Globe, a glimpse of indigenous and other COVID-19 Vaccine Developments and an important interview of Dr. Arti Shah, HOD, Respiratory Medicine regarding COVID-19: Safety Measures & Concerns. An interesting session included is Ayurveda as New Hope for rescue: Prophylactic Guidelines by Ayush Department, Govt. of India for all. Later on, a brief on updates of Research Activities in Department of Innovation and Research has been covered.

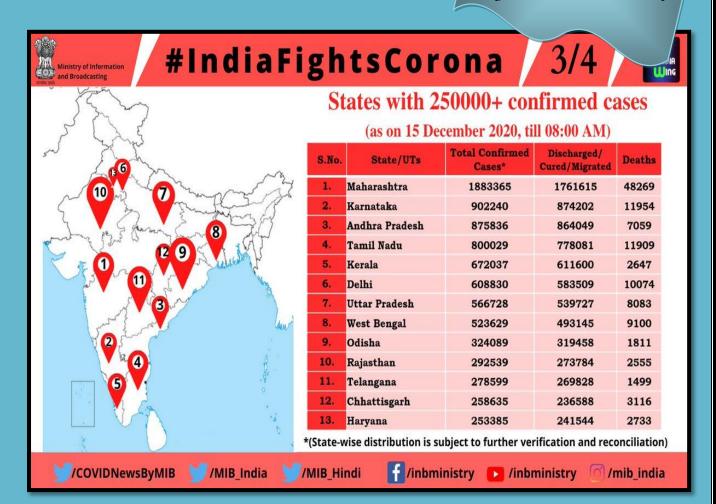
I hope this will aid in research in all the constituent institutes of Sumandeep Vidyapeeth with active participation of all the researchers and faculty members to develop better solutions, therapeutic interventions and vaccine designs for benefit of mankind. Once again, we believe that the students, faculty and clinicians should work together for designing and submission of research proposals leading to development of products and innovations. Your kind suggestions are always welcome to make this communication more meaningful.

 Dr. Avinash K. Seth Director Research





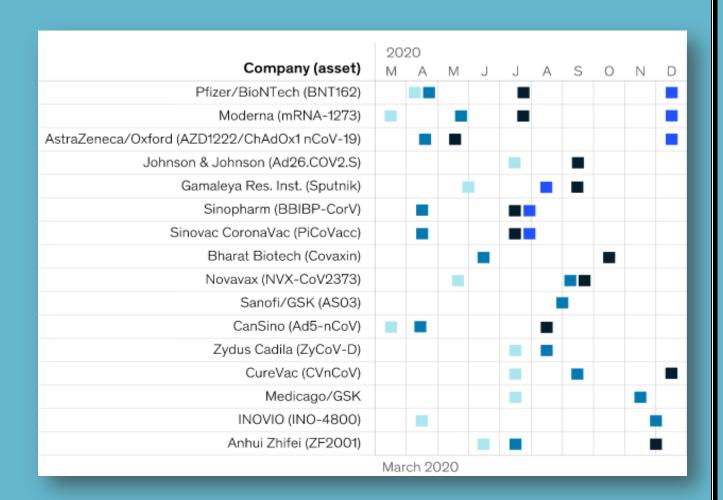


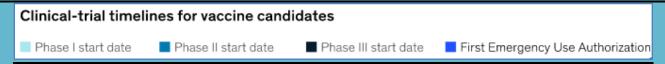


(JULY-DECMEMBER 2020)

COVID-19 VACCINE

DEVELOPMENT





Source: BioCentury; clinicaltrials.gov; Milken Institute COVID-19 Treatment and Vaccine Tracker; press search

Interview of Dr. Arti Shah regarding COVID-19: Safety Measures & Concerns

1) What are your views regarding the current pandemic?

❖ To understand about this Pandemic, we will have to trace the way how COVID – 19 has spread throughout since last year. An apt analysis of the pandemic and implying specific measures are needed to control the spread of the pandemic. We have tried to control with the resources and knowledge we had, but as time passed, infected cases have peaked to a level difficult for medical world to handle. The wait is on for everyone to get effectively vaccinated. The Pandemic demands all precautions to be followed till date, as the best way to fight against it. A ray of hope lies in the form of the vaccine, the outcomes of which seem promising. As we say, everyday COVID – 19 has been teaching us something.

2) How are the SARS CoV2 novel coronavirus transmitted and what are the symptoms of COVID-19?

❖ SARS-CoV-2 occurs usually through droplet infection from cough or nasal/oral secretions of an infected person to other person in contact within 2 meters. Also, infection may occur from any surface/object on which virus has landed. This aerosol generation procedure or airborne transmission or of the virus generally may occur in indoor public crowded spaces, like Restaurants, colleges/schools, malls, shops, etc. Common symptoms include fever, dry cough, tiredness, sore throat, diarrhoea, loss of taste or smell, Headache, body pain, eye infection, etc. Serious symptoms or warning signs include difficulty in breathing or shortness of breath, chest pain or pressure & loss of speech or movement.

3.) Who are less contagious amongst asymptomatic and pre-symptomatic patients?

- ❖ Well, very little is known about the proportions of people with positive results and asymptomatic throughout the course of the disease and the proportions who are presymptomatic and/ or still viral RNA is detectable from an earlier infection. Integrating testing into clinical care missed an important opportunity to better understand the role of asymptomatic infection in transmission.
- Searching for people who are asymptomatic yet infectious is like searching for needles that appear and reappear transiently in haystacks, particularly when rates are falling.

4.) Who are at great risk for getting infected with COVID-19?

❖ Persons who are older than 60 years or having co-morbid conditions like lung or heart disease, diabetes or immune-compromised conditions, or Health Care Professionals are at high risk for COVID − 19 due to frequently being exposed to the virus.

5.) What are some protective measures to prevent COVID-19 transmission within the hospital premises by doctors & staff?

❖ All should use their own mask always inside & outside the hospital premises. All should maintain social distancing of 2 meters or 6 feet, maintain good hygiene, wash hands for 20seconds every time in contact with any surface or anyone. Everyone should be screened before entering a Healthcare Facility for Signs and Symptoms of COVID-19. Also, points of entry may be limited inside a facility. In waiting rooms, appointments may be scheduled and limited with distanced sitting arrangement. Group activities may be limited. Eye protection, use of N95 equivalent or higher-level respirator and Personal Protection Equipment Kit (PPE) must be used by all healthcare professionals, especially during Surgical procedures.

6.) What is a grade 1 emergency in COVID -19?

❖ As per definition, a single or multiple country event with minimal public health consequences that requires a minimal WCO (world customs organization) response or a minimal international WHO response.

7.) What are the diagnostic tests for COVID - 19?

Two kinds of tests are available for COVID-1; Reverse Transcriptase polymerase chain reaction, RT-PCR test and Rapid Antigen Tests from nasopharyngeal swab.

12) What follow-up steps should be taken care by patients & Doctor?

The most serious complications of COVID-19 such as pulmonary fibrosis and pulmonary vascular disease are identified at the earliest possible stage without over-investigating those patients who will make a full recovery. Needs of Acute patients with breathlessness and oxygen requirements shall be identified and addressed at the earliest. Patients diagnosed with COVID-19 pneumonia who have made a full recovery should be reassured that their chest X-ray changes have resolved. At all points of patient contact, teams should be instructed to follow 'post-COVID-19 holistic management.

COVID-19 WARRIORS OF SUMANDEEP VIDYAPEETH

Dhiraj Hospitial's Special Ward for COVID-19 patients



Ayurveda as New Hope for rescue: Prophylactic Guidelines by Ayush **Department, Government of India**

Ministry of Ayush, GoI has issued separate guidelines as documents downloadable from its website for every practitioners (Ayurveda, Yoga, Naturopathy, Unani, Siddha & Homopathy). The Also, general guidelines for public welfare may also be found on the same website.



https://www.ayush.gov.in/ayush-guidelines.html



Download













NATUROPATHY



UNANI





SIDDHA

HOMEOPATHY



COVID-19 Crisis



Ministry of AYUSH recommendations, based on Ayurvedic literature and scientific publications, for preventive health measures and boosting immunity with special reference to respiratory health.

Measures for Enhancing Immunity

- Orink warm water throughout the day.
- Daily practice of Yogasana, Pranayama and Meditation for at least 30 minutes.
- Spices like Haldi (Turmeric), Jeera (Cumin), Dhaniya (Coriander) and Lahsun (Garlic) recommended in cooking.

Ayurvedic Immunity Enhancing Tips

- Take Chyavanprash 10gm (1tsf) in the morning. Diabetics should take sugar free Chyavanprash.
- Orink Herbal Tea/Decoction (Kadha) made from Tulsi (Basil), Dalchini (Cinnamon), Kalimirch (Black Pepper), Shunthi (Dry Ginger) and Munakka (Raisin) - once or twice a day. Add jaggery (Natural Sugar) and/or fresh Lemon Juice to your taste, if needed.
- **Immunity Boosting Measures** for **Self-Care**

Golden Milk- half tea spoon Haldi (Turmeric) powder in 150 ml Hot Milk - once or twice a day.

Simple Ayurvedic **Procedures**

- Nasal Application Apply Sesame Oil/Coconut oil or Ghee in both the nostrils (Pratimarsh Nasya) in morning and evening.
- Oil Pulling Therapy Take 1 table spoon Sesame or Coconut Oil in mouth. Do not drink, swish in the mouth for 2 to 3 minutes and spit it off followed by warm water rinse. This can be done once or twice a day.

Actions During Dry Cough/Sore Throat

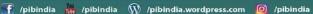
- Steam inhalation with fresh Pudina (Mint) leaves or Ajwain (Caraway Seeds) can be practiced once in a day.
- Lavang (Clove) powder mixed with Natural Sugar/Honey can be taken 2-3 times a day in case of cough or throat irritation.
- These measures generally treat normal dry cough and sore throat. However, it is best to consult doctors if these symptoms persist.













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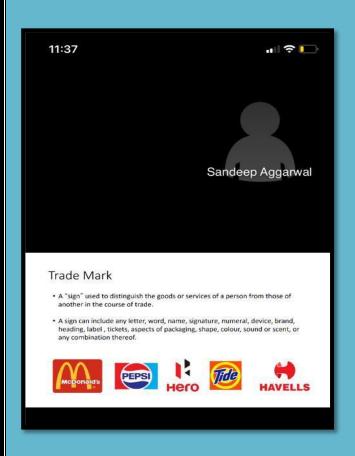


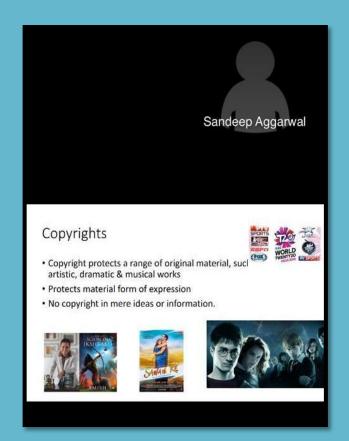
Helpline Number: +91-11-23978046 Helpline Email ID: ncov2019@gov.in Toll Free: 1075

<u>Updates of Research Cell Activities</u>

Sr. No.	Name of Workshops/Seminars	Date (dd/mm/yyyy	Venue	Theme of event	Name of Organizing Institute/ Dept.
1	Intellectual Property Rights (IPR): A Growing Field of Career Opportunities & Future Prospects	23-May-20	Research Cell	Webinar	Research Cell
2	"Intellectual Property Rights for Healthcare"	24-May-20	Research Cell	Webinar	Research Cell
3	Research Methodology : Grant Writing and Applying Statistics in Research	25-May-20	Research Cell	Webinar	Research Cell
4	Revolutionary Technologies in Genomics and Proteomics	29-May-20	Research Cell	Webinar	Research Cell
5	Training Programme on ICH- GCP-E6 (R2) & New Drugs And Clinical Trial Rules- 2019, Clinical Trial and Covid-19 Pandemic	11-Jul-20	Research Cell	ICH-GCP and Schedule (ICMR)	Research Cell
6	Role of Institutional Animal Ethics Committee (IAEC) in research and IAEC Standard Operating Procedures (SOPs)	30-Nov-20	Online Webinar, Department of Central Research and Innovation	ICH-GCP and Schedule (ICMR)	Research Cell







DEFINING THE PROBLEM

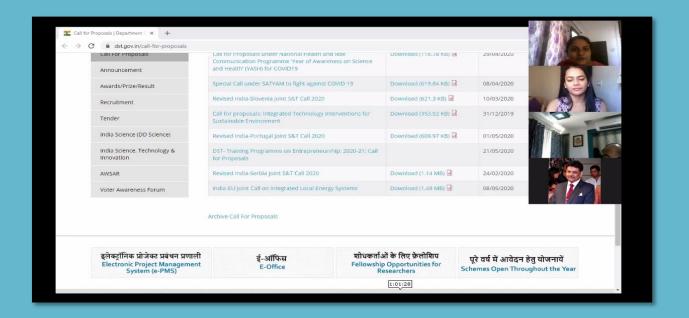
- ► Clearly defined
- ▶ Sharply delineated
- ▶ Unambiguous

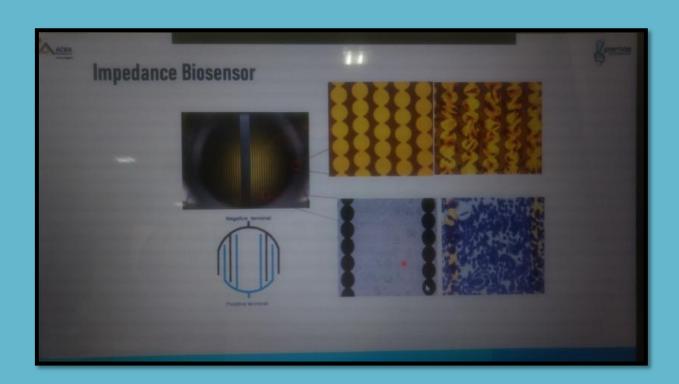


Dr Medha.mp4

DISPLAYING DATA Cumulative Frequency Weight (Kg) 0 up to 20 20 up to 40 12 40 up to 60 60 up to 80 27 30 80 up to 100 3 40 to 50 to 49 54 % % 55 to 65 or 64 more % % % 36 36 12 23 16 14 6 9 24 14 6 5 100 100 25 to 30 to 29 39 % % 41 55 40 13 23 19 3 0 18 6 5 7 Preferred cola 65 2 9 0 16 7 Diet Coke Coke Zero Pepsi Light Pepsi Max Pepsi NET 3 10 22 100

Programme	Qualifications	Amount of Fellowship per month	То
Women Scientist Scheme (WOS-A)	Ph.D. in Basic or Applied Sciences/ MD or equivalent degree	Rs.55,000/-+HRA* as applicable	Rs.30 lakh (excluding HRA and Overhead)
Women Scientist Scheme-B (WOS-B)*	M.Phil/M.Tech/ M.Pharm/ M.VSc or equivalent degree	Rs.40,000/-+HRA* as applicable	Rs.25 lakh (excluding HRA and Overhead)
	M.Sc in Basic or Applied Sciences/ MBBS/B.Tech or equivalent degree	Rs.31,000/-+HRA* as applicable	Rs.20 lakh (excluding HRA and Overhead)
Women Scientist Scheme-C (WOS-C)	Ph.D. in Basic or Applied Sciences/MD or equivalent degree	Rs.35,000/-	
	M.Phil/M.Tech/M.Pharm/M.VSc or equivalent degree	Rs.30,000/-	
©Pankti Mistri	M.Sc in Basic or Applied Sciences/ MBBS/B.Tech or equivalent degree	Rs.25.000/-	







ACKNOWLEDGEMENTS

OUR SPECIAL THANKS TO

Dr. Artí Shah (HOD, Respiratory Medicine), all staff of Respiratory Medicine and all COVID-19 SVDU warriors

For giving the valuable time for imparting knowledge & awareness regarding COVID-19 treatment & Prevention strategies

R

All Staff of Department of Central Research &Innovation

Dr. Príyanka Sharma (Sr. Research Scientist) Dr. Akansha Budakoti (JRF & Sr. Lecturer Mrs. Hemali Shukla (Sr. Clerk)

For compiling, formatting, editing and preparing this newsletter.

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