

Vol. 10 (1)

January to June 2020



Director's Desk

Greetings to all!

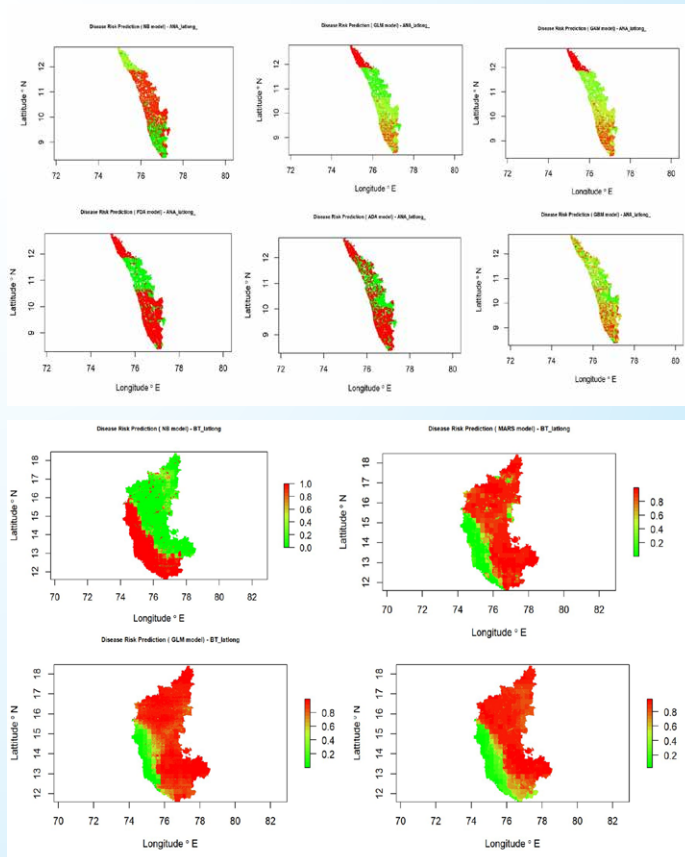
The New Year 2020 started with radiant and blooming scientific temper and activities as every year unfolds itself.

Although, there was COVID-19 pandemic disaster sprang from February, 2020 that hampered major activities, ICAR-NIVEDI has adapted to the situation for functioning with proper safety measures. During the reporting period, 12th Research Advisory Committee meeting was conducted on 1st February, 2020 and the committee provided the necessary directions as per the mandate of the Institute. In order to execute the animal experimentations, 15th and 16th Institutional Animal Ethics Committee meetings were held during 4th January and 29th February, 2020, respectively. Institute Technology Management committee (ITMC) meetings were held on 21st, 31st January and 16th March, 2020 to review new technologies developed in the institute for patent filing, copyright certificate, etc. NCDC sponsored stakeholder review meeting for the leptospirosis control was organised at ICAR-NIVEDI on 7th March, 2020 in which medical and veterinary professionals participated and shared their experiences in leptospirosis research and control. Institute EFC meeting was held under the chairmanship of Dr B.N. Tripathi, DDG (Animal Science) on 4th June ,2020. Further, Director (IVRI), ADG (AH), Director (NIHSAD), Director (NRC on Equines) participated in the EFC discussions and provided critical suggestions. ISO 9001:2015 External Audit for ISO certificate renewal was held on 19th May, 2020 on virtual mode. ICAR-NIVEDI participated and displayed its research activities and diagnostic services and forecasting services in National Horticultural Fair, 2020 organised by IIHR during 5-8th February, 2020 to facilitate lab to field dissemination of scientific information to the farmers. International women's day was celebrated on 10th March, 2020 with Dr Chandish Ballal, Director, ICAR-NBAIR as the chief guest. Schedule Caste Sub Plan (SCSP) and Mera Gaon Mera Gaurav (MGMG) programmes were organized by the institute for the benefit of the target farmers.



Hon'ble Shri S.R. Vishwanath, MLA of Yelahanka constituency visited ICAR-NIVEDI and interacted with Director and Scientists on 10th March, 2020.

Research Achievements



Risk maps were generated for anaplasmosis in Kerala and bluetongue in Karnataka using remote sensing parameters including normalized differentiation vegetative index, land surface temperature, wind speed, maximum and

minimum rainfall generated during the period 2015-2019 by using different statistical models and machine learning algorithms. The risk maps will help the policy makers and stakeholders in devising preventive strategies against these diseases in these two states.

Scientific Activities



The 12th Research Advisory Committee (RAC) meeting of ICAR-NIVEDI held on 1st February, 2020 under the Chairmanship of Dr. C. Balachandran, Vice-Chancellor, TANUVAS, Chennai, reviewed the progress of Institute research activities and provided necessary guidance for improvement. The other RAC members present were Prof. Gaya Prasad, Vice Chancellor, Sardar Vallabhbhai Patel University of Agriculture and Technology, Meerut, Dr.K. Prabhudas, Former Director, PD_ADMAS, Dr. Ashok Kumar, ADG(AH), ICAR, Dr. Manoj Raje, Chief Scientist, CSIR-Institute of Microbial Technology, Chandigarh, Dr. Parimal Roy, Director, ICAR-NIVEDI, Shri Ashok Allapur, Farmer's representative, Vijayapura, and Dr. V. Balamurugan, Principal Scientist and Member Secretary, ICAR-NIVEDI.



Dr. Parimal Roy, Director, ICAR-NIVEDI visited the AICRP on ADMAS centre in Chennai, Tamilnadu and reviewed the progress of the work undertaken by the centre. He had discussion with Shri A. Gnanasekaran, IAS, Director, Department of Animal Husbandry and Veterinary Services, Government of Tamilnadu on 26th February, 2020.



ICAR- NIVEDI, organized "Stakeholders Review Meeting for the Leptospirosis Control" sponsored by National Centre for Disease Control (NCDC), Delhi on 7th March, 2020.



The 15th and 16th Institutional Animal Ethics Committee (IAEC) meetings of ICAR-NIVEDI were held during 4th January and 29th February, 2020, respectively under the Chairmanship of Dr. Parimal Roy, Director. Dr. R.K. Shakthi Devan, CPCSEA Main Nominee, Dr. Jagadish Sanganal, CPCSEA Link Nominee, Dr. Shiva Kumar, Scientist from outside the Institute, Dr. R.G. Prakash, socially aware Nominee and other IAEC members from ICAR-NIVEDI attended the meetings.

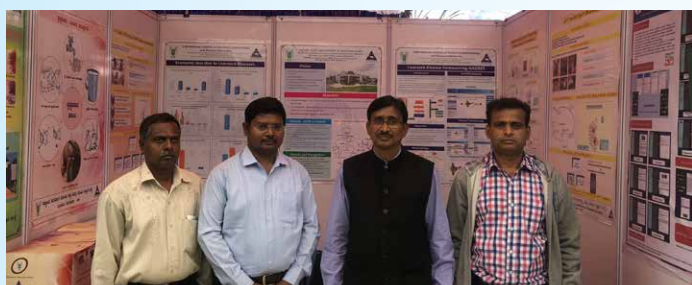


Institute Technology Management Committee (ITMC) meetings of ICAR-NIVEDI were held during 21st and 31st January and 16th March, 2020 under the Chairmanship of Dr. Parimal Roy, Director to review the technologies and patent and copyright filing, etc.

Important Events



The 71st Republic day was celebrated at ICAR-NIVEDI on 26th January, 2020 and Dr. Parimal Roy, Director addressed the staff members on this occasion.



ICAR-NIVEDI participated in the National Horticultural Fair organized by ICAR-Indian Institute of Horticultural Research during 5-8th February, 2020 and exhibited the institute research activities.



ICAR-NIVEDI organized the Annual medical health checkup for the staff members under the supervision of Dr. S. Srinivas, Chief Medical Officer, ICAR-IVRI on 26th June, 2020.



ICAR-NIVEDI celebrated the constitution day on 10th March, 2020 and created awareness on the fundamental

duties of the citizens of India to the staff members and Land Legislation and Reforms.



ICAR-NIVEDI celebrated International Women's day on 10th March, 2020 with various activities and Dr. Chandish R. Ballal, Director, ICAR-National Bureau of Agricultural Insect Resources, Bengaluru participated as a chief guest and inaugurated the function.



Shri Rajeevalochana, AAO was superannuated on 30th June, 2020 and farewell function was organized.

Swachh Bharat Abhiyan



As part of Swachh Bharat Abhiyan, ICAR-NIVEDI created awareness on importance of wearing face mask in the

work place to staff members on 21st March, 2020. On this occasion, face masks and sanitizers were distributed to staff members. Further, within NIVEDI some of the safety measures taken up were viz., Institute entry after thermal scanning and hand sanitizing, keeping hand sanitizers in every corridor, keeping six feet social distancing in canteen and installed pedal operated sanitizer dispenser.

Mera Gaon Mera Gaurav



Dr. P. Krishnamoorthy, Senior Scientist created awareness on Hand hygiene and Swacchh Bharat Abhiyan programme by audiovisual aids among the school children at Government School, Kodipalya, Bengaluru Rural district on 17th February, 2020.

Schedule Caste Sub Plan Programme



Dr. S.S. Patil, Principal Scientist and his team members collected information of 62 beneficiaries under SCSP at Veeradimmanahalli, Challakere, Chitradurga, Karnataka on 25th January, 2020.



Dr. K.P. Suresh, Principal Scientist organized training programme on “Basics of Microsoft Excel” for beneficiaries under SCSP programme on 31st January, 2020.



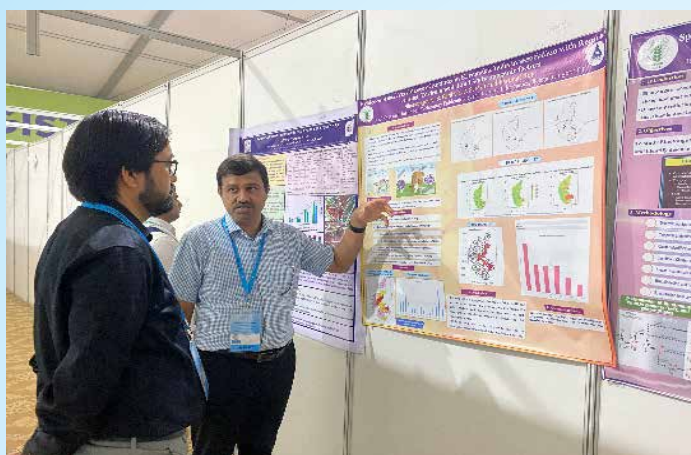
Dr. Parimal Roy, Director visited the Padur, Neppurthangal, Tirumanam villages in Tiruvallur district, Tamilnadu and interacted with beneficiaries and reviewed the SCSP implementation by Dr. A. Sunderesan, PI and Dr. K. Karunanidi, Co-PI, AICRP on ADMAS centre, Tamilnadu on 26th February, 2020.

Livestock Disease Investigations/Field visits



Dr. S.S. Patil, Principal Scientist as Member, Technical Expert Committee inspected the Central cattle breeding farm, Hessarghata, Bengaluru for suitability of FMD vaccine quality test in calves under NADCP (FMD) Project on 4th February, 2020.

Human Resource Development



Dr. S.S. Patil, Principal Scientist participated and presented poster in 107th Indian Science Congress held at University of Agricultural Sciences, Bengaluru during 3-7th January, 2020.



Dr. R. Sridevi, Scientist attended International conference on Autophagy and Lysosomes held at Indian Institute of Science, Bengaluru during 16-18th January, 2020.



Dr. P. Krishnamoorthy, Senior Scientist nominated by Government of India and participated in the European Commission and Better Training for Safer Food (BTSF) initiative sponsored International training programme on "Antimicrobial Resistance" held at New Delhi during 18-21st February, 2020.



Dr. G. Govindaraj, Dr. M. Nagalingam, Dr. S.J. Siju, Scientists of ICAR-NIVEDI organized orientation workshop on 'Disease Burden Quantification in Small Ruminants and Impact of Adopting Preventive Interventions on Rural Livestock Farmers in Odisha' at ADRI, Cuttack on 27th February, 2020 and discussed the intervention plan, sample collection and monitoring activities of the project with the field veterinarians.

Awards and Recognition

- ❖ Dr. P.P. Sengupta, Principal Scientist was awarded Fellow of National Academy of Agricultural Sciences, New Delhi for the year 2020.

Patent Granted

- ❖ Indirect ELISA kit for serodiagnosis of brucellosis in livestock and humans. (Granted Patent Number 335659 dated 20th April, 2020, Inventors – Dr. Rajeswari Shome, Dr. K. Narayana Rao, Dr. Triveni K, Dr. M. Nagalingam, Dr. B.R. Shome and Dr. H. Rahman).

Patents Applied

1. Competitive ELISA for the differential diagnosis of Brucellosis infected from vaccinated bovines. (Patent application number 202041005915, 11th February, 2020, Inventors - Dr. Triveni K, Dr. Rajeswari Shome, Dr. B. R. Shome, Dr. Ashok Kumar, Dr. H. Rahman and Dr. Parimal Roy).
2. Recombinant Leptospiral surface antigen-based immuno-diagnostic test for Leptospirosis. (Patent application number 202041022882, 1st June 2020, Inventors – Dr. V. Balamurugan, Ms. A. Anusha, Ms. S. Sowjanya Kumari, Dr. M. Nagalingam and Dr. Parimal Roy).

New project sanctioned

- ❖ ICAR-Agri-Business Incubator, funded by NAIF-IP and TM Division, ICAR, Government of India (PI: Dr. S. B. Shivachandra, Principal Scientist).

Participation in Meetings/Seminars/ Symposia/Training

1. Dr. Parimal Roy, Director attended the interface meeting between ICAR and DAHD, Govt. of India held at Krishi Bhawan, New Delhi on 2nd January, 2020.
2. Dr. S.S. Patil, Dr. Sathish, B.S., Dr. J. Hiremath, Dr. M.M. Chanda, Scientists and Dr. R. Yogisharadhaya, Dr. A. Prajapati, Senior Technical Officers attended the 107th Indian Science Congress held at University of Agricultural Sciences, Bengaluru during 3-7th January, 2020.
3. Dr. Parimal Roy, Director attended the meeting on preparedness for sero-surveillance and sero-monitoring of FMD and Brucellosis held at Krishi Bhawan, New Delhi on 6th January, 2020.
4. Dr. Parimal Roy, Director participated as Core Committee member for finalizing the draft National Action Plan for Rabies Elimination in India (NAPRE) held at Nirman Bhawan, New Delhi on 8th January, 2020.
5. Dr. P. Krishnamoorthy, Senior Scientist participated in the ICAR Geoportal Workshop held at ICAR National Bureau of Soil Sciences and Land Use Planning, Nagpur during 9-10th January, 2020.
6. Dr. Sridevi R, Scientist attended International conference on Autophagy and Lysosomes held at Indian Institute of Sciences, Bengaluru during 16-18th January, 2020.
7. Dr. P. Krishnamoorthy, Senior Scientist attended the 29th National Congress of Veterinary Parasitology 2020 held at College of Veterinary Science and Animal Husbandry, Jabalpur, Madhya Pradesh during 5-7th February, 2020.
8. Dr. G. B. Manjunatha Reddy, Scientist attended Indo-Australian workshop on Transfer of Mitigation Technologies for Heat Stress in Farm Animals held at ICAR-NIANP, Bengaluru, Karnataka during 5-7th February, 2020.
9. Dr. V. Balamurugan, Principal Scientist, Dr. J. Hiremath, Senior Scientist and Dr. G. B. Manjunatha Reddy, Scientist attended International Conference on Evolution of Viruses and Viral Diseases held at INSA, New Delhi during 18- 20th February, 2020.
10. Dr. P. Krishnamoorthy, Senior Scientist participated in the European commission and BTSF initiative sponsored training programme on Antimicrobial resistance held at New Delhi during 18-21st February, 2020.
11. Dr. P.P. Sengupta and Dr. V. Balamurugan, Principal Scientists attended 20th Indian Veterinary Congress held at Madras Veterinary College, Chennai during 21-22nd February, 2020.
12. Dr. Parimal Roy, Director attended the Expert Committee meeting to discuss the National strategic road map for control and eradication of PPR held at New Delhi on 2nd March, 2020.
13. Dr. Parimal Roy, Director attended interaction meeting chaired by DDG (AS), ICAR with the Directors and Joint Directors of the Animal Science Institutes held at NASC Complex, New Delhi on 6th March, 2020.
14. Dr. G. B. Manjunatha Reddy, Scientist attended workshop on Strategies for Climate Resilient Animal Husbandry Practices in Karnataka held at Veterinary College, Hassan on 10th March, 2020.
15. Dr. Parimal Roy, Director attended virtual meeting with Secretary, DARE & DG, ICAR with Directors of ICAR Institutes held on 10th April, 2020.
16. Dr. Rajeswari Shome, Principal Scientist and Dr. R. Sridevi, Scientist attended online workshop on 'Training Management Information System (TMIS) for HRD Nodal Officers of ICAR' on 8th May, 2020.
17. Dr. K.P. Suresh, Principal Scientist and Dr. P. Krishnamoorthy, Senior Scientist participated in the NICRA Project Review meeting conducted by Dr. S.K. Chaudhari, DDG (NRM), ICAR held through video conferencing on 21st May, 2020.
18. Dr. R. Sridevi, Scientist participated in ICAR-NAHEP sponsored online training programme on 'Science Communication for Smart Scholars' held during 26th May-8th June, 2020.
19. Dr. P. Krishnamoorthy, Senior Scientist participated in the workshop on "ICAR-KRISHI Geoportal spatial data infrastructure and application – A way forward" through online mode held on 2nd June, 2020.
20. Dr. Parimal Roy, Director and NIVEDI Scientists participated in the EFC/SFC meeting through virtual mode with Deputy Director General (AS), ICAR held on 4th June, 2020.
21. Dr. P. Krishnamoorthy, Senior Scientist participated in the National webinar on Awareness and use of CeRA resources through J-Gate discovery platform on 25th June, 2020.

Trainings/Workshops organized

1. One-day training program on 'Basic Excel' was organized at ICAR-NIVEDI on 31st January, 2020.
2. Orientation workshop on Disease Burden Quantification in Small Ruminants and Impact of Adopting Preventive Interventions on Rural Livestock Farmers in Odisha was organized at ADRI, Cuttack on 27th February, 2020.
3. ICAR-NIVEDI organized CDC project Scientists interface meeting with Bangalore Milk Union Limited officials on 28th February, 2020.
4. Stakeholders Review Meeting for Leptospirosis Control sponsored by National Centre for Disease Control (NCDC), Delhi was organized at ICAR-NIVEDI on 7th March, 2020.
5. Two Pre-university students were trained under SCSP programme on Microsoft word, excel and power point during 18th May-16th June, 2020.

Superannuation

1. Shri. Rajeevalochana, Assistant Administrative officer was superannuated on 30th June, 2020.

Distinguished visitors

1. Shri. S.R. Vishwanath, MLA Yelahanka assembly constituency, Bengaluru
2. Dr. C. Balachandran, Vice-Chancellor, TANUVAS, Chennai
3. Prof. Gaya Prasad, Vice Chancellor, SVPUA&T, Meerut
4. Dr. Ashok Kumar, ADG (AH), ICAR, Krishi Bhavan, New Delhi
5. Dr. Chandish R. Ballal, Director, ICAR-NBAIR, Bengaluru
6. Dr. K. Prabhudas, Former Director, PD_ADMAS, Bengaluru
7. Dr. Ajith Shewale, Assistant Director, NCDC, New Delhi
8. Dr. Manoj Raje, Chief Scientist, CSIR-IMT, Chandigarh
9. Dr. D. Mohana Krishna, Joint Director (CDP), DPH&FW, Vijayawada
10. Dr. Sheela S, Assistant Director (Public Health), DoHS, Trivandrum, Kerala
11. Dr. A. P. Sugunan, Scientist G, National Institute of Epidemiology, Chennai
12. Dr. G. Ravi Kumar, Professor, Zoonoses Research Laboratory, TANUVAS, Chennai
13. Dr. S. Nagarathna, Professor, Dept. of Neuromicrobiology, NIMHANS, Bengaluru

Concept and Guidance : **Dr. Parimal Roy**, Director, ICAR-NIVEDI

Editor : **Dr. P. Krishnamoorthy**, Senior Scientist

Co-Editors : **Dr. G. Govindaraj**, Senior Scientist
Dr. R. Sridevi, Scientist
Dr. M. Nagalingam, Scientist and
Dr. Siju Susan Jacob, Scientist

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COVID-19 Awareness

Patients with COVID-19 have reportedly had mild to severe respiratory illness. Symptoms can include

- Fever
- Cough
- Shortness of breath

***Symptoms may appear 2-14 days after exposure.**

Seek medical advice if you develop symptoms, and have been in close contact with a person known to have COVID-19 or if you live in or have recently been in an area with ongoing spread of COVID-19.

www.cdc.gov/covid19-symptoms



Andhra Pradesh
1. Sri Venkateswara Institute of Medical Sciences, Tirupati
2. Andhra Medical College, Visakhapatnam; Andhra Pradesh

Assam & Nicobar Islands

1. GMC, Assam, AP
2. Regional Medical Research Centre, Port Blair, Andaman and Nicobar

Bihar
1. Gauhati Medical College, Guwahati
2. Regional Medical Research Center, Dibrugarh

Chhattisgarh
1. Post Graduate Institute of Medical Education & Research, Chandigarh

Chhattisgarh
1. All India Institute Medical Sciences, Raipur

Delhi-NCR
1. All India Institute Medical Sciences, Delhi
2. National Centre for Disease Control, Delhi

Gujarat
1. N. Medical College, Ahmedabad

2. M. P. Shah Government Medical College, Jamnagar
Haryana
1. P. B. D. Sharma Post Graduate Inst. of Med. Sciences, Rohtak, Haryana

2. BPS Govt Medical College, Sonapat
Himachal Pradesh
1. India Gandhi Medical College, Shimla, Himachal Pradesh

2. Dr. Rajendra Prasad Govt. Med. College, Kangra, Jammu, HP

Odisha
1. Regional Medical Research Center, Bhubaneswar

Odisha and Puducherry
1. Sher-e-Kashmir Institute of Medical Sciences, Srinagar
2. Government Medical College, Jammu, Jammu & Kashmir
3. MGMC Medical College, Jamshedpur

Karnataka
1. Bangalore Medical College & Research Institute, Bangalore
2. National Institute of Virology Field Unit, Bangalore

3. Mysore Medical College & Research Institute, Mysore
4. Hassan Inst. of Med. Sciences, Hassan, Karnataka
5. Shimoga Inst. of Med. Sciences, Shimoga, Karnataka

Kerala
1. National Institute of Virology Field Unit, Kerala
2. Govt. Medical College, Thiruvananthapuram, Kerala
3. Govt. Medical College, Thiruvananthapuram, Kerala

Madhya Pradesh
1. All India Institute Medical Sciences, Bhopal
2. National Institute of Research in Tribal Health, Jabalpur

Maharashtra
1. National Institute of Health and Medical Sciences, Shilong, Meghalaya

Mizoram
1. Government Medical College, Patiala, Punjab
2. Government Medical College, Amritsar, Punjab

Punjab
1. Government Medical College, Patiala, Punjab
2. Government Medical College, Amritsar, Punjab

Rajasthan
1. Government Medical College, Jaipur
2. S.N. Medical College, Indraprastha, Rajasthan
3. SP Med. College, Bikaner, Rajasthan

Tamil Nadu
1. King's Institute of Preventive Medicine & Research, Chennai
2. Government Medical College, Thiruvananthapuram

Telangana
1. Government Medical College, Hyderabad
2. Gandhi Medical College, Secunderabad, Telangana

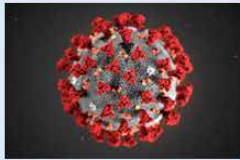
Uttar Pradesh
1. King's George Medical University, Lucknow
2. Institute of Medical Sciences, Banarus Hindu University, Varanasi

Uttarakhand
1. Government Medical College, Haldwani
2. Government Medical College, Haridwar

West Bengal
1. National Institute of Cholera and Enteric Diseases, Kolkata
2. IPGME, Kolkata

Yamalo-Nenets Autonomous Okrug
1. Government Medical College, Patiala, Punjab
2. Government Medical College, Amritsar, Punjab

Puducherry
1. Jawaharlal Institute of Postgraduate Medical Education & Research, Puducherry



CORONAVIRUS EVERYTHING WE KNOW

Origin: Wuhan, China
Cases in India: Three
Cause: Unknown as of now
Vaccine: Not developed
Total deaths reported: 425

Symptoms
Fever, Cough, Shortness of breath

How the virus spreads?
The virus originally emerged from an animal but now seems to be spreading from person to person.

Who can get the infection?
People of all ages can be infected with the novel coronavirus

Prevention
Wash your hands often, Avoid contact with sick people, Stay at home if sick, Do not touch your face with dirty hands, If your flu symptoms worsen, visit the doctor, Sanitize frequently touched surfaces



World Health Organization

From the evidence so far, the new coronavirus can be transmitted in ALL AREAS, including areas with hot and humid weather.

Regardless of climate, adopt protective measures if you live in, or travel to an area reporting COVID-19.

The best way to protect yourself against COVID-19 is by frequently cleaning your hands. Eliminate viruses that may be on your hands and avoid infection that could occur by then touching your eyes, mouth, and nose.

World Health Organization #Coronavirus #COVID19

FACT:
The new coronavirus can be transmitted in areas with hot and humid climates

WHO WhatsApp No. +41798931892

Govt. of India
Ministry of health and Family Welfare, helpline no. 011-23978046



CORONAVIRUS DISEASE 2019(COVID-19)



HOW TO REDUCE YOUR RISK OF CATCHING CORONAVIRUS

- ▶ Clean your hands with soap and water or 60 percent alcohol-based hand sanitizer
- ▶ Cover your nose and mouth with tissues on inside your elbow when coughing or sneezing
- ▶ Avoid touching your eyes, nose or mouth
- ▶ Avoid close contact with anyone with cold or flu-like symptoms
- ▶ Thoroughly cook meat and eggs
- ▶ Avoid unprotected contact with live wild or farm animals

Illness in spotlight

Some symptoms
Runny nose, Headache, Cough, Sore throat, Fever

Do you have it?
Lab testing is needed to confirm if a patient has coronavirus.

If you have it
In severe cases, the virus can cause lower-respiratory tract illnesses like pneumonia or bronchitis which can lead to death, especially in sick or elderly patients.

THE VIRUS CAN BE SPREAD from person to person in the air through coughing and sneezing or by touching an infected person or surface. The current coronavirus that originated in a live animal market in Wuhan, China is a novel virus that is currently being investigated by the CDC.

What people should know about COVID-19 testing

- ▶ If you feel like you need to see a doctor, call your healthcare provider to discuss whether or not you need to be seen. If you need urgent medical attention, call 911.
- ▶ Your provider will consult with the local public health department to determine if testing is necessary.
- ▶ Your doctor will take samples and talk to you about next steps.
- ▶ Samples are sent to the Oregon State Public Health Lab for testing; the only lab able to test for COVID-19 in Oregon.
- ▶ The Oregon State Public Health Lab will test for COVID-19. Your provider and public health will be notified of the results.
- ▶ If the test shows presence of the infection, the Oregon Health Authority will announce this as a presumptive case. The samples will be sent to the CDC for confirmation.
- ▶ Not everyone who is sick needs to be tested. Your health care provider and public health department will determine if testing is necessary.

REDUCE THE RISK OF CORONA VIRUS INFECTION

1. Frequently clean your hands by using soap or sanitizer frequently.
2. Avoid close contact with anyone that has fever and cough.
3. When coughing and sneezing cover mouth

I'm pregnant How can I protect from COVID-19

1. Wash your hand's frequently.
2. Avoid touching your eyes, nose and mouth
3. Put space between your self and others

MAIN SYMPTOMS OF COVID-19

1. Fever
2. Cough
3. Shortness of breath

- #Stay Home
- #Stay Safe
- #Be Healthy
- #Be Responsible
- #Maintain Social Distancing

COVID-19 (NOVEL CORONAVIRUS)

Learn proper hand washing & other tips to prevent Coronavirus

Health Care No. 104

COVID-19 CORONAVIRUS DISEASE 2019

Stay Home, Stay Healthy, India fights against COVID-19