

**WORLD ENVIRONMENT DAY OBSERVATION**  
**DEPARTMENT OF EPIDEMIOLOGY**  
**THE TAMILNADU Dr. M.G.R. MEDICAL UNIVERSITY, GUINDY**  
**REPORT OF THE ORATION ON**  
**‘AWARENESS PROGRAM ON CLIMATE CHANGE AND HEALTH’**  
**DATE: 07.06.2023**

**World Environment Day** is the biggest international day for the environment is celebrated on 5<sup>th</sup> June annually since 1973, it has grown to be the largest global platform for environmental outreach. It is celebrated by millions of people across the world. In this regard, Department of Epidemiology, The TN Dr.MGR Medical University has taken initiative to create awareness about climate change and health issues on 7<sup>th</sup> June 2023 to public, faculty and students.

The honourable Vice chancellor Dr.K.Narayanasamy started the program by plantation sapling in our university premises.



This awareness program was started with invocation song followed which, Dr. M.B. Aswath Narayanan, Registrar of the University delivered a welcome address and the presidential address was delivered by honourable Vice Chancellor- Dr.K.Narayanasamy. In his speech, he spoke about Good environment = Good health, Youngsters are ambassador for human society, Emphasis on natural calamities and Climate change and genetic drift.

Two eminent speakers delivered a lecture on climate change and health issues. Dr.S. Balachandran, Director, India metrological department, Chennai talk about **‘Temperature Variability And Its Impact On Livelihood, Nutrition And Health Climate’**. In his speech he emphasised on

- Climate change indicators
- Increased carbon-di-oxide emission and decreased oxygen saturation
- Impact of climate on soil microbes

- Role of Indian Meteorological department on generating data for disease occurrence from rainfall of different region, state and subdivision.
- Application of science from observation, understanding and forecasting.
- Integrated observation system of land, ocean and atmosphere
- Wealth RADAR
- Analysis of temperature and weather through energy distributed consumption by equation.
- Ahmedabad heat action plan.
- Incidence of anomaly in India due to climate change from 1901
- Implementation of MARA for health

**Finally, he concluded that covid-19 pandemic is a starting of pandemic but we are going to face many pandemic like this and we should be alert to compete the disaster management.**

Dr.MadhanRaj , Scientist D, from NIE, ICMR from Chennai spoke about about “ *The emerging health profile of the changing climate*”. In his speech, he mainly focused on the following issues.

- Long-term average weather pattern
- Correlation of temperature and carbon-di-oxide
- Increase of global temperature by 1.09°C
- Climate change and health pathway
- Sensitivity of pathogen survival for temperature and precipitation
- Climate change responsible for illness and death with Odds Ratio of 10
- Concept of vulnerability of human health to climate change and it outcomes
- KYOTO protocol for the reduction of greenhouse gas
- Heat related morbidity and increase in non-communicable diseases
- Imbalance of epidemiological triad and increase of infectious diseases
- Increase of malaria by 150% in western pacific
- Water and food borne diseases resulting from flood and draught
- Zoonotic spill over
- Severe pandemic expectation in the near future by WHO
- Heat wave in European countries
- Decrease in cereal production by 20% by 2080 due to climate change in South Asia
- Disease spread through migration and displacement
- Inequity and social justice
- Mitigation and adaptation as the need of the hour
- Air pollution  $\alpha$  Respiratory outcomes (Increase in airborne allergens leading to increase in asthma)
- Promise of India to come to zero from emitting greenhouse gas by 2070.

The program was ended with vote of thanks and National anthem.

