



**Pakistan Meteorological Department**  
Climate Change Impact and Integration Cell (CIIC)  
Meteorological Headquarters  
Islamabad, Pakistan

Islamabad, 23<sup>rd</sup> September 2022

**SUBJECT: Dengue Alert-I**

Dengue fever has deepened its roots and impacted severely the health of people over the last ten years in the country. This phenomenon occurs especially during the post-monsoon season (20<sup>th</sup> September till 5<sup>th</sup> December) provided the conditions are favourable. The dengue triggers during those periods where the temperature and humidity threshold remains 26-29°C (3-5 weeks) and 60% respectively. Moreover, the rainfall remains  $\geq 27$ mm with a maximum time lag period of 3 weeks. The active period for dengue attacks is two hours after sunrise and two hours before sunset. The breeding stops once the temperature falls below 16°C.

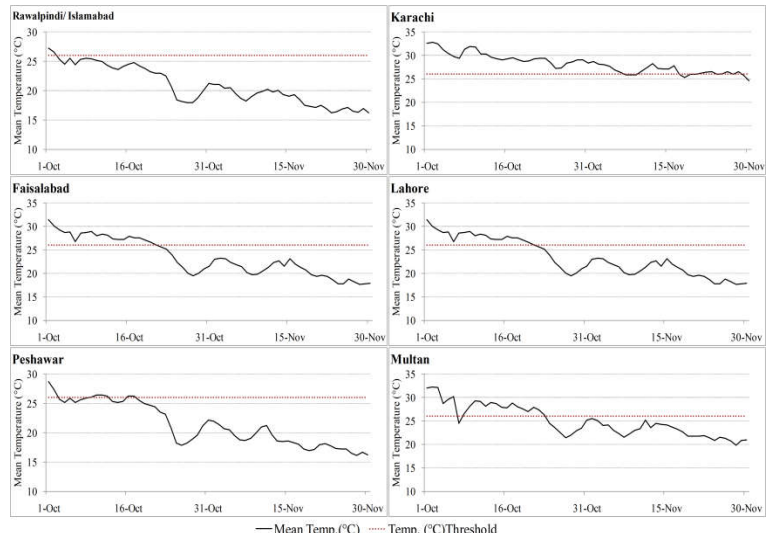


Figure 1 Temperature forecast and threshold of Dengue vulnerable districts during Oct-Nov 2022

- Keeping in view the past data analysis, current and future climate outlook, the above-mentioned atmospheric variables are providing an ideal environment for a dengue outbreak. Based on the analysis, the environment has become conducive from mid of September 2022 for dengue onset and it is predicted that it may outbreak in October 2022, particularly in ten major cities of Pakistan i.e., Karachi, Lahore, Peshawar, Rawalpindi, Islamabad, Hyderabad, Faisalabad, Sialkot, Larkana and Multan as well as in flood affected areas of Pakistan.
- It is advised to all stakeholders to take pre-emptive measures for the dengue outbreak in the districts. National Health agencies and Dengue control centres are advised to keep themselves updated on the PMD website <http://www.pmd.gov.pk>.

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For Director