

1. **catch napping** (phrase) – catch off guard, find unprepared, take by surprise.
2. **outbreak** (noun) – outburst, epidemic, sudden appearance/occurrence.
3. **make up** (phrasal verb) – compensate for, atone for; offset, balance/counterbalance.
4. **Nipah virus** (noun) – a zoonotic virus (it is transmitted from animals to humans) and can also be transmitted through contaminated food or directly between people.
5. **check** (noun) – control, restraint, limitation.
6. **alacrity** (noun) – eagerness, willingness, readiness.
7. **await** (verb) – wait for, expect, look for.
8. **set up** (phrasal verb) – arrange, organize, sort out.
9. **come into contact with** (phrase) – to touch someone unknowingly.
10. **exhibit** (verb) – show as a symptom.
11. **reportedly** (adverb) – supposedly, seemingly, apparently.
12. **mortality** (noun) – (in a particular time/for a cause) the rate of death.
13. **index case** (noun) – the first (diagnosed) case.
14. **take someone by surprise** (phrase) – surprise, shock, stun/astonish.
15. **recurrence** (noun) – reappearance, repetition, return.
16. **fruit bat** (noun) – a large flying mammal (with large wings) that eats fruit and lives in hot countries; it is also called as flying fox.
17. **candidate** (noun) – prospect, possibility.
18. **undertake** (verb) – commit oneself pledge/vow, guarantee/assure.
19. **surveillance** (noun) – observation, scrutiny, inspection.
20. **up and running** (phrase) – functioning, operative, in use.
21. **pathogen** (noun) – bacteria/virus, that causes disease.
22. **lag behind** (phrasal verb) – trail, fall back, grow/develop slowly.
23. **front** (noun) – aspect, side, thing.

Caught napping: on Nipah outbreak in Kerala

Kerala makes up for lost focus by acting quickly on the Nipah outbreak

A year after Kerala's prompt action quickly brought the deadly **Nipah virus** infection outbreak under check in two districts (Kozhikode and Malappuram), the State has once again shown alacrity in dealing with a reported case. A **23-year-old student** admitted to a private hospital in Ernakulam on May 30 tested positive for the virus on June 4. But even as the government was awaiting confirmation from the National Institute of Virology, Pune, steps had been taken to prevent the spread of the disease by tracing the contacts, setting up isolation wards and public engagement. Two health-care workers who had come into contact with the patient exhibited some symptoms and are being treated. While 311 people who had come in close contact with the student are kept in isolation to prevent the spread of the disease, the numbers might be more — the student had reportedly travelled to

four districts (Ernakulam, Thrissur, Kollam, and Idukki) recently. Containing the spread of the Nipah virus is important as the mortality rate was 89% last year, according to a paper in the journal *Emerging Infectious Diseases*. The source of infection in the index case (student) remains unknown. However, transmission to 18 contacts last year and the two health-care workers this year has been only through the human-to-human route.

If Kerala was taken by surprise by the first outbreak last year, its recurrence strongly suggests that the virus is in circulation in fruit bats. After all, the virus isolated from four people and three fruit bats (*Pteropus medius*) last year from Kerala clearly indicated that the carrier of the Nipah virus which caused the outbreak was the fruit bat, according to the paper in *Emerging Infectious Diseases*. Analysing the evolutionary relationships, the study found 99.7-100% similarity between the virus in humans and bats. The confirmation of the source and the recurrence mean that Kerala must be alert to the possibility of frequent outbreaks. Even in the absence of hard evidence of the source of the virus till a few days ago, fruit bats were widely believed to be the likely candidates. That being so and considering the very high mortality rate when infected with the virus, it is shocking that Kerala had not undertaken continuous monitoring and surveillance for the virus in fruit bats. One reason for the failure could be the absence of a public health protection agency, which the government has been in the process of formulating for over five years, to track such infective agents before they strike. Not only should Kerala get this agency up and running soon, it should also equip the Institute of Advanced Virology in Thiruvananthapuram to undertake testing of dangerous pathogens. Known for high health indicators, Kerala cannot lag behind on the infectious diseases front.