

## MEDICINE AND PHARMACEUTICALS



- **Control of tsetse flies**

Recording of temperature at different heights to detect temperature inversions which cause tsetse flies to take wing. Also wind speed recording to determine whether spraying is practicable, and humidity recording related to breeding conditions.



- **Storage of pharmaceutical products**

Monitoring temperature and humidity of room where pharmaceuticals are stored.

- **Malaria research**

Correlating weather conditions (wind speed and temperature) with mosquito activity in the lowlands and highlands of Papua New Guinea.



- **Circadian rhythms in humans**

Research in circadian rhythms in humans by monitoring body temperature (measured by a rectal temperature probes) and activity (measured with wrist-mounted accelerometer) in relation to a 24-hour light/dark regimen.

Research in circadian rhythms in relation to malignant hyperpyrexia.

- **Monitoring pH**

Monitoring pH in the oesophagus in outpatients to determine best time to operate.

- **Validation of autoclaves**

Monitoring temperature for validation of autoclaves and hot air sterilisers for pharmaceutical applications.

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- **Aerobic fitness tests**

Counting revolutions of a flywheel on an exercise bicycle in tests of aerobic fitness.

- **Blood-banks**

Logging temperature of a blood bank refrigerator.

- **Intensive Care monitoring**

Monitoring rectal temperature of patients in intensive care.