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# Different meteorological parameters influence metapneumovirus and respiratory syncytial virus activity

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## Highlights

- Weather conditions influence respiratory viral infections
- Information on weather variables contributing to hMPV activity is scarce
- Temperature and wind speed influence hMPV activity
- Temperature, relative humidity and air pressure affect RSV activity
- A drop in temperature precedes RSV peak activity

## Abstract

**Background:** Both human metapneumovirus (hMPV) and respiratory syncytial virus (RSV) cause epidemics during the cold season in temperate climates.

**Objectives:** The purpose of this study was to find out whether climatic factors are associated with RSV and hMPV epidemics.

**Study design:** Our study was based on data from 4300 patients admitted to the Dijon University Hospital for acute respiratory infection (ARI) over three winter seasons chosen for their dissimilar meteorological and virological patterns. Cases of hMPV and RSV were correlated with meteorological parameters

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