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## Clinical profile and outcome of children with bronchiolitis in relation to respiratory syncytial virus

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**Background:** The objective of this study was to detect respiratory syncytial virus and study the clinical profile and outcome in case of bronchiolitis.

**Method:** Total 70 blood samples were collected from patients of bronchiolitis aged 5 months to 5 years over one year period, their clinical profile recorded and IgM enzyme linked immunosorbant assay test for detection of antibodies was performed from serum to determine the incidence of respiratory syncytial virus.

**Results:** Out of 70 samples, 8 were discarded due to technical error. Hence out of the remaining 62 samples, only 4 samples came out to be positive for respiratory syncytial virus. It was also observed that the risk factors like smoking, family history of asthma and atopy were statistically significant in terms of poor outcome ( $p < 0.001$ ,  $p = 0.025$ ,  $p = 0.021$  respectively).

**Conclusion:** Respiratory syncytial virus has been reported to be the commonest organism causing bronchiolitis. These studies were based on the direct detection of component of virus i.e. antigen or viral RNA, through the samples collected from nasopharynx; but our method was based on the detection of IgM antibodies, through the serum, which could be the reason for less sensitivity of the detecting antigen.

### Biography

Gauri Shankar Shah is from B.P. Koirala Institute of Health Sciences, Dharan, Nepal. He is currently serving as a Professor and Chair of Department of Pediatrics and Adolescent Medicine. His Academic Qualifications are Doctor of Medicine (Paediatrics), Bangladesh Institute of Child Health, Dhaka University, Dhaka, Bangladesh and Doctor of Medicine (MD) Tver Medical Institute, Tver Soviet Union (USSR).

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