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Epidemiological analysis of *Haemorrhagic septicaemia* and foot and mouth disease occurred in southern India

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Epidemiological analyses of *Haemorrhagic Septicaemia* (HS) and Foot and mouth disease (FMD) are prerequisite for planning, execution, monitoring and control of these diseases which ranks first in bacterial and viral disease, respectively. In the present study, epidemiological analysis of HS and FMD in southern states of India was carried out. Secondary data collected from published reports were analyzed for total outbreaks, seasonal occurrence and prevalence and case fatality rates. Spatial mapping of HS and FMD outbreaks was undertaken to know the geographical spread. In southern states, total number of outbreaks occurred during 2002-12 was *Haemorrhagic septicaemia* (5372), Foot and mouth disease (9894) and showed decreasing trend. Highest number of HS outbreaks occurred in Andhra Pradesh during 2002-07 and in Karnataka during 2007-12. HS outbreaks occurred mostly during monsoon and post monsoon period during July, August and September months. HS prevalence rate per 104 populations was highest in Karnataka (0.12) and lowest in Tamil Nadu (0.0034). Case fatality rate in HS was highest in Tamil Nadu (89.47%) and lowest in Kerala (23.96%). FMD outbreaks occurred more in Karnataka than other southern states and occurred throughout the year. FMD prevalence rate was highest in Kerala (12.12) and lowest in Karnataka (2.85). Case fatality rate was highest in Tamil Nadu (10.31%) and lowest in Karnataka (1.42%) for FMD. Case fatality rate was high in HS than FMD, whereas prevalence rate was high in FMD than HS. Control measures have to be prioritized in highest prevalence and case fatality rates states to minimize the loss due to HS and FMD.

Biography

P Krishnamoorthy did his BVSc and MVSc (Veterinary Pathology) from Madras Veterinary College, TANUVAS, Chennai and PhD from Veterinary College, KVAFSU, Bangalore. He is currently working as Scientist, National Institute of Veterinary Epidemiology and Disease Informatics, formerly PD_ADMAS, Bangalore. He has specialized in epidemiology, nutritional pathology and laboratory animal management. He is recipient of ICAR outstanding Team Research Award as member of team during 2010 and Fellow of Academy of Sciences for Animal Welfare (FASAW). He has 30 research publications in peer reviewed journals and book, book chapters, technical bulletins, training manuals, and completed one external and seven Institute funded, research projects.

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