

Abstract**Massive outbreak of measles in 2013, an experience in Teaching Hospital Anuradhapura**

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Abstract**Background**

Measles vaccine was introduced to the expanded program of immunization (EPI) of Sri Lanka in August 1984 as a single dose and extended to a double dose vaccine following the measles outbreak in 1999-2000. After this intervention the incidence of the measles was under control until 2013. Purpose of this study was to describe the measles outbreak in 2013.

Methods

Spatio-temporal distribution of the island wide outbreak was analysed using surveillance data from Weekly Epidemiological Reports published by the Epidemiology Unit of the Sri Lanka from 2012 to 2014. A prospective study was carried out in the university medical unit of teaching hospital, Anuradhapura from October 2013 to describe the clinical-epidemiological profile of measles patients.

Results

There was a clear geographical variation in measles incidence in Sri Lanka during the 2013 outbreak. Increase of measles incidence was detected since the latter part of 2012. From 2013 January, 101 patients suspected with measles were admitted to the Teaching Hospital Anuradhapura (THA). Until June 2013, all suspected cases were less than 12 months of age. After June 2013, more adults were admitted. We recruited 32 patients for the clinical study, of whom, most showed typical clinical features except Koplik spots which were there in only 8 patients. Features suggestive of pneumonia were observed among 30 (90.9%) patients. Two patients (6.3%) with severe pneumonia received ICU care due to respiratory difficulties. Out of 32 patients, 15 (45.5%) had prior immunization for measles, 2 reported that they never had a measles immunization and 16 were unsure about their immunization status. Of those reported as previously immunized, 11 (73.3%) belonged to the age group 12-29 years.

Conclusions

This outbreak in Anuradhapura was started among infants. Sudden increase of susceptible cohort due to change in immunization schedule could be a trigger factor for this outbreak.


Key words: Measles; Outbreak; Anuradhapura; Sri Lanka

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Cite this abstract as: Ganegama RM¹, Malawara Arachchi NS¹, Senevirathne SS¹, Karunamuni N¹, Agampodi SB¹, Dahanayaka N², Prasanna P², Pahalagamage S³. Massive outbreak of measles in 2013, an experience in Teaching Hospital Anuradhapura. *Anuradhapura Medical Journal* 2015;9 (2Supp):S41.

DOI: <http://dx.doi.org/10.4038/amj.v9i2Supp.7590>

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