

Abstract

# Measles Outbreak Investigation in Village, Mehmood Jamali, UC Ghandtar District Shaheed Benazirabad

Rukhsana Channar; N Masood

**Corresponding Author:**

Rukhsana Channar

## Abstract

**Background:** On 10th November 2017, District Surveillance Coordinator Shaheed Benazir-Abad notified eight suspected measles cases to Disease Surveillance Unit Hyderabad. Teams of Fellows constituted and deputed to the village to investigate the reported cases.

**Objective:** To verify, assess the magnitude, to evaluate risk factors and formulate recommendations for future control.

**Methods:** A descriptive study was carried out. Active case finding carried out; hospital records checked. Case was defined, a person resident of Jogi para Village Mehmood Jamali having fever with maculopapular rash and one of the following clinical features; cough, coryza and conjunctivitis from 1st November 2017 to 13th December 2017. Verbal autopsy was carried out with parents of deceased children. Data were analyzed using Epi Info 7.1.

**Results:** Total 37 suspected cases identified with 3 deaths (CFR 8%). Median age was 36 months (range: 6-216 months). Male were more affected n=27 (73%) than Females n=10(27%) most affected age group was 12 to 35 months n=23 (AR 1.5%) while overall AR was 1.2%. Fever and maculopapular rash n=37 (100%), coryza n=25 (67.5%) and cough n=23 (62%) were clinical presentation. Post measles complications were Pneumonia n=12 (32%) and diarrhea n=5 (13.5%). All cases were un vaccinated for measles vaccinations. The immunization status evaluation showed n=12 (32%) cases had not received measles-1 vaccination.

**Conclusions:** Measles outbreak was most probably due to very low routine immunization coverage. Outbreak was timely contained with active surveillance and initiation of Mop up vaccination. Cases were mobilized and admitted in hospitals therefore, no more deaths reported. There is need of strong supervision and monitoring of routine immunization activities in the district. Health education sessions should be arranged in the community on importance of immunization with active involvement of local stakeholders.

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