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## PEDIATRIC ISOLATION IN SECONDARY CARE HOSPITAL OF LOW RESOURCE SETTING. A SERVICE INNOVATION PROJECT! ESTABLISHED IN AGA KHAN HOSPITAL FOR WOMEN GARDEN –AKHW

**Nadia Mohammad<sup>a</sup>, Shireen Mohammad<sup>a</sup>, , Arjumand Sohail<sup>a</sup>, Rahila Meghani<sup>a</sup>, Kashif Sajwani<sup>a</sup>, Adnan Khan<sup>a</sup> and Rozina Shazad(s)<sup>a</sup>**<sup>a</sup>Aga Khan Hospital for Women, Pakistan

**Introduction:** Measles is a highly contagious viral illness with a considerable contribution to under- 5 child mortality across the globe. Transmission is both airborne and respiratory. Transmission in the health care setting is well documented in the literature but can be prevented if case isolation is instituted immediately. Measles patients require isolation. As a community hospital people came for quality care at affordable rates. At AKHW, Garden we have the perception that isolation facility required lots of resources & budgets. However, literature also supports it can be doable by innovative strategies within limited resources in order to provide accessible quality care for population requiring transmission based precautions.

**Methodology:** Six sigma DMAIC methodology was used to solve the issue. Meetings with relevant stakeholders were arranged, consulted with AKU IC team on bare minimum isolation room requirement on the basis of which guidelines were developed & implemented. Approval was granted by administration for utilization of 2 private rooms for temporary isolation.

**Results:** After taking interventions 63 patients with measles were treated and no inter transmission was reported. Designed airborne isolation precaution flyers & displayed for awareness, Ensure availability of proper PPE (N95 masks), and Staff trainings on dealing with patients with these population. Guidelines were developed and shared with the team. Isolation trolley was implemented & staff awareness flyers, airborne precaution flyers were placed outside patient's room.

**Conclusion:** Pediatric isolation is relatively new and growing area of secondary care hospital. It is designated for children with suspicious or confirmed case of Measles. This provides effective and efficient management of measles patient.

### Biography

Nadia Mohammad, M.B.B.S, F.C.P.S, is a graduate of Liaquat University of Medical and Health Sciences Hyderabad, Pakistan. She trained in pediatrics at the Liaquat University of Medical and Health Sciences (LUMHS) Hyderabad, Pakistan and Neonatal Intensive care, Paeds Cardiology training at Aga Khan University Hospital (AKUH), Karachi, Pakistan. She is Fellow of college of physician and surgeons, Pakistan. Nadia has been practicing since 2010, in the AKUH as Senior Instructor, Aga Khan University Hospital in the Karachi Pakistan. She is also Chair of Infection prevention and control committee of Aga Khan Hospital for Women –Garden.

Shireen.mohammad@aku.edu

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