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#### **Bronchiolitis Obliterans- A Rare Sequelae of Measles**

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# Introduction

Bronchiolitis obliterans (BO) is a rare form of chronic obstruction of the airways which is associated to inflammatory abnormalities

of the bronchioles and whose histological characterisation is intraluminal obstruction of the bronchioles. OB is characterized by progressive (often fatal) airflow obstruction, the absence of parenchymal infiltrates on chest radiographs, mosaic pattern of perfusion on highresolution computed tomographic scan, poor responsiveness to therapy, **The most common associated viral etiology is adenovirus, especially serotypes 1, 3, 7 and 2.** 

### **Case Report**

A 7 year old female child

Chief	complaints:	fever,cough	since
3month,bi	eathlessness since 1	month.	

**Past history:** h/o measles 1 month back.

### Systemic examination

Severely thin, conscious,

PR-150/min ,RR-68/min

spO2:85% on room air

RS-air entry bilaterally reduced with bilateral coarse crepts

# Investigations

Endotracheal	tube	Acinetobacter species	
secretions	and	sensitive to	
bronchioloaleveolar		colistin, vancomycin and	
lavage for culture	and	linezolid	
sensitivity			
2D Echo	Moderate Pulmonary		
		Hypertension .	
HRCT CHEST		decreased lung	
		attenuation with ground	
		glassopacities	
Kochs workup ,HIV		MT-13 mm, GL for AFB	
		negative gene expert	
		negative	
		BAL-negative	
		negative	
CXR		increased	
		bronchovascular	
		markings	

Child was intubated i/v/o impending respiratory failure. Although there was no evidence of bacterial, fungal or tuberculosis infection she received treatment for all these on clinical grounds. Madhubala Jadhav, et al. International Journal of Medical Sciences and Innovative Research (IJMSIR)

Diagnosis of bronchiolitis obliterans was suspected because of bilateral CXR infiltrates with CT scan s/o ground glass opacities with mosaic pattern and air trapping and non response to antibiotics and clinical deterioration.

Pulmonary function tests:could not be done since child was mechanically ventilated.

Child was started on steroids but the child succumbed and expired.

### **Discussion and Conclusion**

Post-infectious bronchiolitis obliterans is an infrequent chronic obstructive pulmonary disease that develops in children as sequelae of a severe viral LRTI that injured irreversibly the bronchiolar micro-environment. The diagnosis is reached only through the integration of clinical, radiological and laboratory data suggestive of the disease. Radiological modalities like HRCT chest help in establishing diagnosis .A multidisciplinary approach with supportive care and oxygenation with inhaled steroids and physiotherapy may help in clinical improvement and improving quality of life.

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