



# Respiratory Care in PICU

## Aerosol Therapy

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# Aerosol

liquid droplets or solid particles

suspended in a gas(air)

visible like fog



# **Aerosol vs Humidity**

**Humidity**  
**water in gas status (vapor),**  
**invisible**



# Goals of Aerosol Therapy

drug be inhaled and deposit in targeted site of  
respiratory system :

deposit in lungs (lung dose),  
responsible for pharmacologic effects at targeted site



# Advantages of Aerosol Therapy

- ④ direct delivery of drug to site of action
- ④ rapid onset of action
- ④ lower dose to produce desired effects  
(than systemic administration)
- ④ minimizes systemic adverse effects