

Protection From Air Pollution

Droplets are particles of respiratory secretions larger than 5 micron

Airborne droplet nuclei are particles of respiratory secretions smaller than 5 micron

Droplet nuclei are TB, measles, varicella, SARS

Conditions/pathogens for which droplet precautions are needed include Neisseria meningitidis, pertussis, adenovirus, Hemophilus influenzae type b, Mycoplasma pneumoniae, rubella

People within 6-10 feet of a patient on droplet precautions should wear a mask

Patients on airborne isolation precautions should be placed in airborne infection isolation room

Airborne infection isolation room is a private room with negative air pressure and a minimum 6-12 air changes per hour

Use a room air cleaner with HEPA filter that directs filtered air towards a person's head during sleep

Door to the isolation room must remain closed

All persons entering the isolation room must wear a respiratory mask with a filtering capacity of 95% that allows a tight seal over the nose and mouth

HEPA (High efficiency air purifying) filters must be installed in the exhaust ducts

N95 masks filter particulates >1 micron in diameter with at least 95% efficacy given flow rates up to 50 l/min

N95 masks are designed to filter air before it is inhaled

Vacuum should be equipped with high frequency particulate air filter by asthmatics

Follow cough etiquettes

Follow respiratory hygiene