Airborne protection when treating people with COVID-19





COVID-19 can survive for long periods on some surfaces and in fine aerosols that are sometimes produced during advanced medical procedures. Physiotherapists must consider the risks and benefits of carrying out **aerosol generating procedures**¹, and take the appropriate precautions. **Airborne protection** should be used during respiratory physiotherapy interventions.



Aerosol generating procedures include²:

- Cough generating procedures (eg coughing and huffing during treatment)
- Positioning/gravity assisted drainage techniques and manual techniques (eg expiratory vibrations, percussion, manual assisted cough) that may trigger a cough and the expectoration of sputum
- Use of positive pressure breathing devices (eg IPPB), mechanical insufflation-exsufflation (MI-E) devices, intra/extra pulmonary high frequency oscillation devices (eg The Vest, MetaNeb, Percussionaire)
- PEP and oscillating PEP devices
- Bubble PEP
- Nasopharyngeal or oropharyngeal suctioning
- Manual hyperinflation (MHI)
- Open suction
- Saline instillation via an open circuit/ endotracheal tube
- Inspiratory muscle training, particularly if used with people who are ventilated and disconnection from a breathing circuit is required
- Sputum inductions
- Any mobilisation or therapy that may result in coughing and expectoration of mucus.

Aerosol generating procedures should be carried out in a negative-pressure room or in a single room with the door closed.

If a person with COVID-19 is being treated outside an isolation room, make sure they are wearing a surgical mask.

For airborne protection³:



