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**Effects of intrapulmonary percussive ventilation on airway mucus clearance: A bench model**

**Lorena Fernandez-Restrepo, Lauren Shaffer, Bravein Amalakuhan, Marcos I Restrepo, Jay Peters, Ruben Restrepo**

#### **Abstract**

##### **AIM:**

To determine the ability of IPV to promote airway clearance in spontaneously breathing patients and those on mechanical ventilation.

##### **METHODS:**

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**intrapulmonary percussive ventilation**; volume controlled continuous mandatory ventilation; pressure controlled continuous mandatory ventilation; **bench** study; hyperinflation; lung **model**; mechanical ventilation; resulting in: (1) increased **mucus clearance**, (2) better diffusion ... **effect** on mean **airway** pressure at T1 0.8 s and 20 psi.

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IPV is a safe airway clearance method for tracheostomized Duchenne muscular dystrophy ... Key words: intrapulmonary percussive ventilation, mucus, clearance, Duchenne muscular ... itor (model 5410; Datex Ohmeda, Helsinki, Finland). VC.

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