

ABSTRACT

The invention discloses a device and method for treating restrictive pulmonary diseases and improving the drainage function of a patient's lungs using vibroacoustic effects. The method uses vibroacoustic influence of a wide frequency range of between 20 Hz to 300 Hz to promote the opening of atelectatic alveoli, in order to safely and effectively treat patients with restrictive pulmonary diseases without subjecting them to dangerous lung recruitment manoeuvres. The vibroacoustic effects are applied to the surface of the patient's chest through handheld vibroacoustic transducers or a vibrowrap attached to the main unit. The vibroacoustic effects generated by the device can also be used to improve the drainage of fluids in the lungs and interstitial tissues, and thereby prevent hypostatic pneumonia and other complications in intubated patients.