



PRESENTS

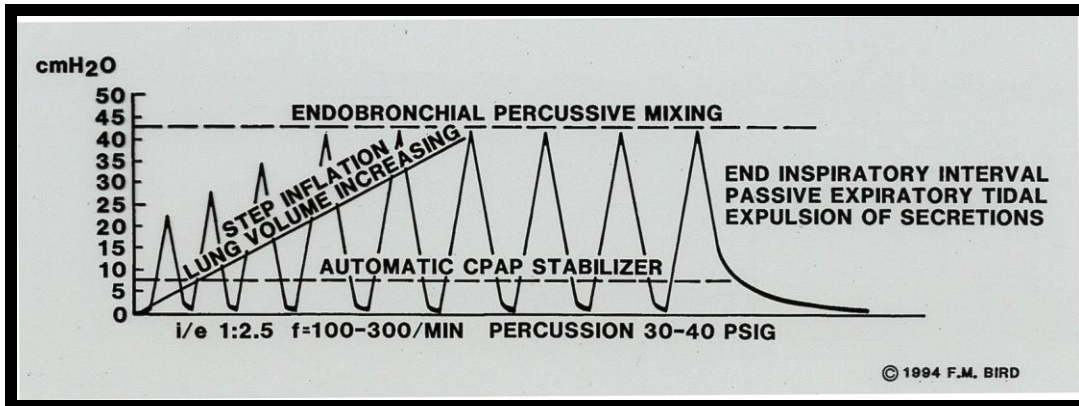
**IPV®-1C INSTITUTIONAL INTRAPULMONARY PERCUSSIONATOR®
MODEL F0001-C**



As with all IPV® Percussionators®, the IPV-1C is capable of percussively mobilizing bronchiolar airways and their associated alveoli in all cardiopulmonary patient populations with mixed bronchiolar airway obstructions, from minimal toward total airway obstruction as well as associated diffuse unobstructed PREFERENTIAL AIRWAYS without barotraumatic hyperinflation of the alveoli served by the unobstructed preferential bronchiolar airways.

This is accomplished in neonates through pediatrics to large adults WHILE MAINTAINING A LUNG PROTECTIVE STRATEGY.

The Percussive Ventilation of the lungs provide for a powerful means of mobilizing and stabilizing the peripheral pulmonary airways to increase alveolar ventilation. Concomitant with percussive pulmonary gas exchange, a dense therapeutic aerosol is topically delivered throughout the endobronchial structures. The percussive higher rate (frequency) delivery of sub tidal volumes of respiratory gases into the pulmonary structures serves to provide for a “Newtonian” pumping action within the elastomeric endobronchial airways to mobilize and raise endobronchial secretions. Unique IPV® programming can accommodate all patient populations from neonates through pediatrics to large adults.



As the patient breathes through a mouthpiece, mask or endotracheal tube, the IPV® Percussionator® delivers mini-bursts of respiratory gases into the lungs at selected rates of from 100 to 300 cycles per minute. Generally, the patient only takes a breath when they “feel like it,” allowing the Percussionator® to do the work of breathing for them. During the percussive bursts of gas delivered into the pulmonary airways, a continuous endobronchial pressure wedge is maintained. While pulsatile intra-airway oscillatory pressure changes occur between baseline and the oscillatory plateau, the airways are maintained in a semi-dilated state as cyclic expiratory pressure changes occur.

During therapeutic percussion an aerosol mist is delivered throughout the lungs by the high output aerosol generator of the Intrapulmonary Percussionator®. Aerosol misting within the endobronchial airways reduces the adhesive and cohesive forces of the retained secretions, decreases swelling within their walls, and relaxes potential spasm of the terminal bronchioles (small airways) of the lungs. The pulsatile intrapulmonary exchange of well-mixed respiratory gases serves to convectively flush out carbon dioxide and diffusively renew oxygen.

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Document ID: F-041809 DCO 10282 06-22-10