Case #501

Disposable Impedance Adaptr (DIA) for Ventilator Assessment of Respiratory Function

Assessment of respiratory mechanical functionation at mechanical ventilators is done using measurement of impedance on ventilators sure and flow, but when a patient is partially breathing for themselves, accurate respiratory function measurements cannot be determined using these parameters. The DIA solves this problem by providing a controlled oscillatory perturbation of the vaidfelivered to the patient so that he impedance measurement can be done at a frequency range above that of the regular ventilation waveform using pressure transducers that are embedded within the DIA. The DIA is integrated into a patient's ventilator be