

NEW VENTILATION TECHNIQUES AND COMPARISON WITH TRADITIONAL VENTILATORS

Essay

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List of Abbreviations

ABG	:	Arterial blood gas
ABP	:	Arterial blood pressure
AC	:	Assisted control
ACT	:	Activated clotting time
ALS	:	Air leak syndrome
ARDS	:	Acute respiratory distress syndrome
ASD	:	Atrial septal defect
AVM	:	Arteriovenous malformation
AVSD	:	Atrioventricular septal defect
BBS	:	Bicarbonate buffer system
BP	:	Blood pressure
BPD	:	Bronchopulmonary dysplasia
bpm	:	Breath per minute
BW	:	Birth weight
C	:	Compliance
CBC	:	Complete blood picture
CBFV	:	Cerebral blood flow velocity
CBG	:	Capillary blood gas
CDH	:	Congenital diaphragmatic hernia
CDP	:	Continuous distending pressure
CHD	:	Congenital heart disease
CHF	:	Congestive heart failure
CLD	:	Chronic lung disease
CMT	:	Conventional medical therapy
CMV	:	Conventional mechanical ventilation
CNEP	:	Continuous negative extrathoracic pressure
CO	:	Cardiac output
CO ₂	:	Carbon dioxide

List of Abbreviations (Cont.)

CPAP	:	Continuous positive airway pressure
CPP	:	Cerebral perfusion pressure
CRP	:	C-reactive protein
CS	:	Caesarian section
CV	:	Conventional ventilation
CVP	:	Central venous pressure
DO ₂	:	Oxygen delivery
ECF	:	Extracellular fluid
ECG	:	Electrocardiogram
ECLS	:	Extracorporeal life support
ECMO	:	Extracorporeal membrane oxygenation
ELSO	:	Extracorporeal life support organization
ETCO ₂	:	End tidal CO ₂
ETT	:	Endotracheal tube
F	:	Flow
FDA	:	Food and drug administration
FiO ₂	:	Fractional concentration of oxygen in inspired gas
FRC	:	Functional residual capacity
GA	:	Gestational age
GMP	:	Guanosine 3,5 cyclic monophosphate
HCO ₃	:	Bicarbonate
HFCV	:	High frequency conventional ventilation
HFFI	:	High frequency flow interrupter
HFJV	:	High frequency jet ventilation
HFO	:	High frequency oscillator
HFPPV	:	High frequency positive pressure ventilation

List of Abbreviations (Cont.)

HFV	:	High frequency ventilation
HIE	:	Hypoxic ischemic encephalopathy
HPLO	:	High pressure low oxygen
I.C.H	:	Intra cranial hemorrhage
I/E	:	Inspiratory-expiratory ratio
ICF	:	Intracellular fluid
ICP	:	Intracranial pressure
IDM	:	Infant of diabetic mother
IDV	:	Intermittent demand ventilation
IMV	:	Intermittent mandatory ventilation
iNO	:	Inhaled nitric oxide
IPPV	:	Intermittent positive pressure ventilation
IVH	:	Intraventricular hemorrhage
JR	:	Juxtamedullary receptors
LA	:	Lactic acidosis
LPHO	:	Low pressure high oxygen
MABP	:	Mean arterial blood pressure
MAP	:	Mean airway pressure
MAS	:	Meconium aspiration syndrome
MV	:	Mechanical ventilation
NaHCO ₃	:	Sodium bicarbonate
NICU	:	Neonatal intensive care unit
NO	:	Nitric oxide
NPV	:	Negative pressure ventilation
NTB	:	Necrotizing tracheobronchitis
NVD	:	Normal vaginal delivery
O ₂ Hb	:	Oxygenated hemoglobin
PA	:	Postero-anterior

List of Abbreviations (Cont.)

PaCO ₂	:	Pressure of carbon dioxide
PAL	:	Pulmonary air leak
PAO ₂	:	Alveolar oxygen tension
PaO ₂	:	Pressure of arterial oxygen
P _{ATM}	:	Atmospheric pressure
PAV	:	Proportional assist ventilation
Paw	:	Mean airway pressure
PDA	:	Patent ductus arteriosus
PEEP	:	Positive end expiratory pressure
PFCs	:	Perfluorocarbon
PIE	:	Pulmonary interstitial emphysema
PIP	:	Peak inspiratory pressure
PM	:	Pulmonary mechanics
PPC	:	Pneumopericardium
PPH	:	Persistent pulmonary hypertension
PPHN	:	Persistent pulmonary hypertension of the neonate
PPV	:	Positive pressure ventilation
PS	:	Pressure support
PS	:	Pulmonary stenosis
PSV	:	Pressure support ventilation
PTV	:	Patient triggered ventilation
PVR	:	Pulmonary vascular resistance
R	:	Resistance
RD	:	Respiratory distress
RDS	:	Respiratory distress syndrome
RF	:	Respiratory failure
RMU	:	Respiratory muscle unloading

List of Abbreviations (Cont.)

ROP	:	Retinopathy of prematurity
RR	:	Respiratory rate
SIMV	:	Synchronized intermittent mandatory ventilation
Spo2	:	Oxygen saturation
Tc	:	Time constant
Tcpo2	:	Transcutaneous oxygen
Te	:	Expiratory time
TGV	:	Transposition of great vessels
Ti	:	Inspiratory time
TR	:	Tricuspid regurge
TTN	:	Transient tachypnea of the newborn
UAC	:	Umbilical artery catheterization
USA	:	United States of America
UVC	:	Umbilical vessels catheter
V/Q	:	Ventilation-perfusion ratio
VD	:	Vaginal delivery
VO2	:	Oxygen consumption
V-P	:	Volume-pressure
VSD	:	Ventricular septal defect
V _T	:	Tidal volume

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