Appendix 1. Preferred Terms and Symbols

Primary Symbols		
S	Saturation	
С	content	
F	Fractional concentration	
T	Temperature	
P	Pressure	
V	Volume	
Qualifying s	ymbols are denoted by subscripted character; uppercase for values in	
the lungs an	d lowercase for values in the blood	
A	Alveolar	
Ι	Inspired	
В	Barometric	
L	Lung	
D	Dead space	
T	Tidal	
Е	Expired	
E	Mixed expired	
a	Arterial	
b	Blood	
С	Capillary	
V	Venous	
c'	Pulmonary end-capillary	
$\overline{\mathbf{v}}$	Mixed venous	
t	Time	
Pulmonary 1	Function testing	
D/V_A		
DLCOsb	Lung diffusing capacity determined by the single-breath technique	
ERV	Expiratory reserve volume	
FEF _{25-75%}	Forced expiratory flow over the middle half of the FVC	
FEV_1	Forced expiratory volume in the first second	
FEV_t	Forced expiratory volume in the first <i>t</i> seconds	
FRC	Functional residual capacity	
FVC	Forced vital capacity	
IC	Inspiratory capacity	
IRV	Inspiratory reserve volume	
IVC	Inspiratory vital capacity	
MVV	Maximal voluntary ventilation	
PEF	Peak expiratory flow	
RV	Residual volume	
RV/TLC%	Residual volume expressed as percent of TLC	
TGV	thoracic gas volume	

TLC	Total lung conscitu	
	Total lung capacity	
V _A	Alveolar gas volume	
VC	Vital capacity	
Ventilation	n	
f	Breathing frequency	
V_{T}	Tidal volume	
Ϋ́,	Alveolar ventilation	
\dot{V}_{D}	Dead space ventilation	
$\dot{\dot{V}}_{A}$ $\dot{\dot{V}}_{D}$ $\dot{\dot{V}}_{CO_{2}}$	Carbon dioxide production	
$\dot{\mathbf{V}}_{\mathrm{O}_2}$	Oxygen consumption	
V_{O_2}	ventilation-perfusion ratio	
V/Q	venulation-perfusion ratio	
Pulmonar	y mechanics	
С	Compliance	
E	Elastance	
Gaw	Airway conductance	
P _{0.1}	Airway occlusion pressure at 0.1 s	
P _A	Alveolar pressure	
Paw	Pressure in the airway	
Paw	Mean pressure	
PEmax	Maximal expiratory pressure	
Pes	Esophageal pressure	
PI _{max}	Maximal inspiratory pressure	
PIP	Peak inspiratory pressure	
$P_{\rm L}$	Transpulmonary pressure	
P_{pl}	Intrapleural pressure	
Pplat	Plateau pressure	
R	Resistance	
Raw	Airway resistance	
$R_{\rm E}$	Expiratory resistance	
R _I	Inspiratory resistance	
sGaw	Specific airway conductance	
WOB	Work of breathing	
Blood gase	Plood gases	
P	Mean pressure	
P_{O_2}	Partial pressure of oxygen	
P_{aO_2}	Arterial partial pressure of oxygen	
P_{AO_2}	Alveolar partial pressure of oxygen	
P_{aCO_2}	Arterial partial pressure of carbon dioxide	
	Alveolar partial pressure of carbon dioxide	
P_{ACO_2}	End-tidal partial pressure of carbon dioxide	
P_{ETCO_2}	End-tidal partial pressure of carbon dioxide	

$P_{\overline{E}CO_2}$	Mixed exhaled partial pressure of carbon dioxide
	Mixed venous partial pressure of oxygen
$P_{\overline{v}CO_2}$	tcPO2 transcutaneous partial pressure of oxygen
P _{tcO2}	tcPO2 transcutaneous partial pressure of carbon dioxide
P _{tcCO₂}	Alveolar-arterial PO ₂ difference
$\frac{P(A-a)O_2}{P(a/A)O_2}$	Arterial to alveolar PO ₂ ratio
C_{aO_2}	Arterial oxygen content
	Mixed venous oxygen content
$C_{\overline{v}CO_2}$	Pulmonary capillary oxygen content
$C_{c'O_2}$	
S_{aO_2}	Arterial oxygen saturation
S_{pO_2}	Oxygen saturation as measured by pulse oximetry
$S_{\overline{v}CO_2}$	Mixed venous oxygen saturation
$C(a - \overline{v})O_2$	Arterial-venous oxygen content difference
рН	
Q	Blood flow
$\begin{array}{c} c(u V)O_2 \\ pH \\ \dot{Q} \\ \dot{Q}_T \\ Q \\ \dot{Q}_S/\dot{Q}_T \end{array}$	Cardiac output
Q	Blood volume
$\dot{Q}_{\rm S}/\dot{Q}_{\rm T}$	Shunt fraction
R	Respiratory quotient
Ventilator N	omenclature
APRV	Airway pressure release ventilation
AVAPS	Average volume assured pressure support
CMV	Continuous mandatory ventilation (rather than assist-control)
CPAP	Continuous positive airway pressure
EPAP	Expiratory positive airway pressure
F_{IO_2}	Fraction of inspired oxygen (expressed as a fraction, not percent)
HFJV	High frequency jet ventilation
HFOV	High frequency oscillatory ventilation
I:E	Inspiratory time to expiratory time ratio
IPAP	Inspiratory positive airway pressure
NAVA	Neurally adjusted ventilatory assist
NIV	Noninvasive ventilation (rather than NPPV) Proportional assist ventilation
PAV PC-CMV	Proportional assist ventilation
PC-CIVI V	
	Pressure-control continuous mandatory ventilation (rather than pressure
PC-IMV	Pressure-control continuous mandatory ventilation (rather than pressure assist-control)
PC-IMV PCIRV	Pressure-control continuous mandatory ventilation (rather than pressure assist-control) Pressure-control intermittent mandatory ventilation
PCIRV	Pressure-control continuous mandatory ventilation (rather than pressure assist-control) Pressure-control intermittent mandatory ventilation Pressure control inverse ration ventilation
PCIRV PEEP	Pressure-control continuous mandatory ventilation (rather than pressure assist-control) Pressure-control intermittent mandatory ventilation Pressure control inverse ration ventilation Positive end-expiratory pressure
PCIRV PEEP PRVC	Pressure-control continuous mandatory ventilation (rather than pressure assist-control) Pressure-control intermittent mandatory ventilation Pressure control inverse ration ventilation Positive end-expiratory pressure Pressure regulated volume control
PCIRV PEEP	Pressure-control continuous mandatory ventilation (rather than pressure assist-control) Pressure-control intermittent mandatory ventilation Pressure control inverse ration ventilation Positive end-expiratory pressure

MC CMM	X 1
VC-CMV	Volume-control continuous mandatory ventilation (preferred rather than
VC IMV	volume assist-control)
VC-IMV	Volume-control intermittent mandatory ventilation
VDR	Volumetric diffusion respiration
VS	Volume support
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Other prefe	
6MWD	Six-minute walk distance
6MWT	Six-minute walk test
AARC	American Association for Respiratory Care
ABG	Arterial blood gas
ALS	Amyotrophic lateral sclerosis
ARDS	Acute respiratory distress syndrome
ARF	Acute respiratory failure
ATPS	Ambient temperature and pressure saturated
BMI	Body mass index
BPAP	Bilevel positive airway pressure (rather than BiPAP)
BTPS	Body temperature and pressure saturated
CCI	Chronic critical illness
CDC	Centers for Disease and Prevention
CF	Cystic fibrosis
CI	Confidence interval
CMS	Centers for Medicare and Medicaid services
CO	Carbon monoxide
COPD	Chronic obstructive pulmonary disease
CPR	Cardiopulmonary resuscitation
CPT	Chest physical therapy
СТ	Computed tomography
DNR	Do not resuscitate
DPI	Dry powder inhaler
EAdi	Electrical activity of the diaphragm
EBUS	Endobronchial ultrasound
ECLS	Extracorporeal life support
ECMO	Extracorporeal membrane oxygenation
EIB	Exercise-induced bronchospasm
FDA	US Food and Drug Administration
HFNC	High flow nasal cannula
HME	Heat and moisture exchanger
HMEF	Heat and moisture exchanging filter
HRCT	High resolution computed tomography
Hz	Hertz
IBW	Ideal body weight
IBW	Ideal body weight
ICP	Intracranial pressure
ICU	Intensive care unit
100	Intelligive cuite utilit

ICU	Intensive care unit
ILD	Interstitial lung disease
IQR	Interquartile range
MDI	Metered dose inhaler
MRI	Magnetic resonance imaging
NG	Nasogastric (tube)
NIH	National Institutes of Health
NO	Nitric oxide
OSA	Obstructive sleep apnea
PAP	Positive airway pressure
PEP	Positive expiratory pressure
PFT	Pulmonary function test or testing
PMV	Prolonged mechanical ventilation
PSG	Polysomnography
r	Correlation coefficient
RSBI	Rapid shallow breathing index
RT	Respiratory therapist
SBT	Spontaneous breathing trial
SD	Standard deviation
SE	Standard error
STPD	Standard temperature and pressure dry
TBLB	Transbronchial lung biopsy
TBNA	Transbronchial needle aspiration
VA	Veterans Administration
VAE	Ventilator-associated event
VAC	Ventilator-associated condition
VAP	Ventilator-associated pneumonia
VILI	Ventilator induced lung injury