

# Health Professionals Testing Canada

HPTC 27 Wyngate Drive Fredericton, NB E3A 9X8

Candidate Information Manual HPTC National Respiratory Therapy Examination July 2024

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# Examination Registration Information

	July 8, 2024
	Exam
Registration dates	April 11, 2024
Registration deadline and submission of all accommodation applications	May 8, 2024
Registration fees includes 3.8% processing fee plus practice examination	\$949. 00 Plus applicable tax
Cancellation deadline	June 21, 2024

### a) First time applicant:

First time applicants who are or will be graduates of Accreditation Canada accredited training programs are automatically eligible to sit the HPTC examinations and can access the registration portal on the HPTC website at <a href="https://hptc.ca/english/exam-registration/">https://hptc.ca/english/exam-registration/</a>

### b) Applicants unsuccessful on previous HPTC exam(s)

Those who were unsuccessful on the HPTC examinations and are graduates of Accreditation Canada accredited training programs will have to have their eligibility approved by one of the regulating authorities or the CSRT (representing the non-regulated Provinces) in Canada. Please select the appropriate candidate type when registering online through the registration portal on the HPTC website at <a href="https://hptc.ca/english/exam-registration/">https://hptc.ca/english/exam-registration/</a>

### c) Foreign Trained Applicant

Foreign trained applicants will have to have their eligibility approved by one of the regulating authorities or the CSRT (representing the non-regulated Provinces) in Canada. Please select the appropriate candidate type when registering online through the registration portal on the HPTC website at <a href="https://hptc.ca/english/exam-registration/">https://hptc.ca/english/exam-registration/</a>

(**NOTE**: Please contact the appropriate regulating authority to ensure that you meet all of the eligibility requirements of that organization.)

- CSRT Credentialing Examination/l'Examen de certification de la SCTR
   (Representing the non-regulated provinces of British Columbia, North West Territory, Nunavut, and the Yukon Territory) <u>www.csrt.com</u>
- CRTA Registration Examination\*(Alberta) <u>www.rrtalberta.ca</u>
- CRTO Registration Examination \*(Ontario) <u>www.crto.on.ca</u>
- MARRT Registration Examination\*(Manitoba) <u>www.marrt.org</u>
- NSCRT Registration Examination (Nova Scotia) <u>www.nscrt.com</u>
- SCRT Registration Examination \*(Saskatchewan) <u>www.scrt.ca</u>
- NBART Registration Examination (New Brunswick) <u>www.nbart.ca</u>
- OPIQ (Quebec) <u>www.opiq.qc.ca</u>
- NLCRT (Newfoundland and Labrador) <u>www.nlcrt.ca</u>
- PEI (College of Allied Health Professionals) <u>www.cahppei.ca</u>

## **IMPORTANT REGISTRATION Information**

To register for an examination please go to the HPTC website during the registration period. There are two (2) components to the registration process:

1. Create a username and password on the HPTC Computer Based Examination Site

**NOTE:** Please record your username and password! You will need this information to log into the computer software on the day you write your exam.

2. Sign in, select and purchase the current exam, and <u>complete</u> the registration process.

(NOTE: you are not considered registered until you complete both above steps!)

Please ensure at least one week prior to the examination that you have received a confirmation email containing the exam date, time, and required documentation. If you have not received a confirmation email by this time please contact <u>1 (855) 772-8678</u>

- The candidate is responsible for accurate completion of the appropriate HPTC Application Form and ongoing notification of address and telephone number changes through <u>1 (855) 772-8678</u>
- Candidates with questions or concerns regarding the registration process can contact <u>1 (855) 772-</u> <u>8678</u>
- Candidates cancelling prior to the cancellation deadline (see schedule) will be refunded their exam fee. *After the cancellation deadline, the candidates will not be eligible for any reimbursement of paid fees.*

# **General Information**

### Philosophy

The goal of HPTC is to provide a bilingual examination for credentialing of the highest educational caliber. The HPTC shall achieve and maintain a respiratory therapy entry to practice exam that is national in scope and accommodates provincial regulatory needs. The content of the examination will adhere to the current National Competency Profile and matrix as set out by the National Alliance of Respiratory Therapy Regulatory Bodies (NARTRB).

### Committee

The Examination Development and Review Committee (EDRC) is comprised of members from across Canada. The members are Registered Respiratory Therapists (RRT) in good standing with the CSRT and/or their regulatory body, who have been appointed by HPTC. The Chair of the Committee is an RRT, appointed by the Board of Directors of HPTC. Resources are consulted as required.

### **Creation of the examination**

All questions are based on the current National Competency Framework (available at <u>https://nartrb.ca/national-competency-profileframework/</u>) and generated by the EDRC. All questions must be unanimously accepted by the EDRC and reviewed in English and French prior to being approved for the question bank. Each year an examination is compiled from the question bank and is submitted to the EDRC for scrutiny. Included with this exam is the review of the pass mark based on the Cut Score Study and psychometric consultation.

### **Pilot test items**

In order to gather pertinent and relevant statistical information on new item bank questions, HPTC may place a psychometrically approved number of pilot test items on each examination. These pilot questions are embedded within the exam. Pilot items will not affect the allotted exam time, do not contribute to the scoring process and are not part of the exam weighting matrix.

# Examination Information

### Examination Sites

### July 8, 2024 Exam

This exam will be offered via the Proctor U test platform on line.

## Candidate Preparation

Candidates **must visit** <u>https://www.meazurelearning.com/exam-technology/meazure-exam-platform/online-proctoring-browser-faq</u> and review all materials and test their computers.

### Writing the examination

The HPTC National Respiratory Therapy Examination consists of two parts:

Part One contains between 100 to 120 type "A" questions (see examples on the next page). The allotted time for this test is two hours and 30 minutes (150 minutes)

Part Two contains between 100 to 120 type "A" questions. The allotted time for this test is two hours and 30 minutes (150 minutes)

If a technical issue occurs during the exam, the exam timer stops and resumes when the technical issue is resolved.

Spelling is either in the American or British form.

### Exam matrix

### Final Examination Matrix – Distribution across Competency Areas

### Final Examination Matrix by Question Type, Taxonomic Level, Age and Gender

	Domain of competence	NARTRB Recommendation	Range
1	Manage the airway, providing optimal ventilation (C4, C6)	20%	19% - 21%
2	Assess cardio respiratory status, incorporating cardio- pulmonary diagnostics, the use of invasive vascular procedures, and executing resuscitation. (C1, C7, C8, C10)	25.2%	24% - 26%
3	Administer medications and substances, assist with anesthesia, and perform adjunct therapies. (C3, C5, C9)	18%	17% - 19%
4	Provide evidence informed patient centered respiratory care, demonstrating critical thinking skills and communicating effectively. (B0, B2, B5)	23.8%	23% - 25%
5	Optimize patient safety, implementing preventative measures to ensure health and safety. (B7, C2)	13%	12% - 14%

Additional Examination Specifications – 2020	Percentage of Examination
Question Presentation	
Independent	35 - 45%
Case-based	55 - 65%
Taxonomy	
Core competencies	35 - 39%
Clinical competencies	61 - 65%
Age Group	
Neonates	5 - 15%
Pediatrics	5 - 15%
Adults	75 – 85%
Gender	
Male	50%
Female	50%

# Style of Questions

The examination is entirely comprised of type "A" multiple choice with up to four (4) possible choices.

Case Study questions: To help indicate the end of one case study and the beginning of a new case study, a horizontal line followed by the words **NEW CASE** will be used.

### Examples of A-Type questions:

Which of the following effects on the heart are seen during parasympathetic stimulation?

- 1. stroke volume decreases, cardiac output decreases
- 2. cardiac output decreases, coronary circulation increases
- 3. heart rate decreases, blood pressure increases
- 4. blood pressure decreases, stroke volume increases

Which of the following statements concerning pressure support ventilation is FALSE?

- 1. it augments the patient's inspiratory effort
- 2. the patient controls ventilation timing
- 3. it can be used in all modes of mechanical ventilation
- 4. the patient determines inspiratory flow and tidal volume

The maximal quantity of gas which can be inspired from the expiratory resting position is termed:

- 1. inspiratory reserve volume
- 2. residual volume
- 3. inspiratory capacity

# <u>Results</u>

Candidates will receive their results within 90 days of the examination date. Candidates who provide an email address on their application form may receive an email message with their results sooner. Results will not be given by telephone. *Results will be reported to the candidates and the organization(s) indicated on their application form. It will be the responsibility of the candidate to contact their regulatory body to obtain their credential and/or license to practice.* 

### Cut Score Study

Bookmark standard setting methods (Lewis, Mitzel, Green et al., 1999) were used to establish a cut level (i.e., pass mark) for the 2016 HPTC Respiratory Therapy Exam.

The Bookmark method provides a set of procedures designed to yield cut scores that are based on expert participants' review of individual test items (Cicek, 2007).

The procedures are designed to enable the expert review to be guided and informed by pre-determined criteria, for example by proficiency with specific skills or competencies such as those identified in the 2016 National Competency Framework (NARTRB, 2016).

The Bookmark method was selected because of the method's ability to accommodate assessments based on mixed-format or multiple sessions, because the method permits participants to review stand-alone and case study based constructed responses items concurrently, and because the method is based upon and ideally suited for item response theory (IRT) based assessment approaches. The Bookmark method requires fewer, simpler decisions from participants than many other standard setting methods, and is simpler for those who sponsor the sessions (Mitzel, Lewis, Patz et al., 2001). The Bookmark method was considered an efficient, effective and appropriate approach for standard setting with the HPTC.

## Instructions and Regulation

1. The computer software provides access to an online calculator.

All other electronic devices (e.g. cell phone, mobile devices, calculators, etc) are not permitted. If these items are stored in the examination room, they **must be turned off.** 

Permissible items shall include: disposable earplugs, and drinks in a clear spill proof container with no label. All items will be reviewed/approved by the test centre proctor. No food is permitted in the test centre.

On the day of the examination candidates must present two pieces of identification, one being a government issued photo ID (i.e. driver's license or passport) (Student and hospital identifications are NOT accepted). The proctor will check their names against the list of candidates for that specific testing centre.

- 2. HPTC needs to have current contact details for all candidates in order to notify of results. If any contact details change after registration the candidates will have access to make changes to their profile at any time.
- 3. Candidates are encouraged to use the washroom prior to the exam but are allowed supervised bathroom breaks during the exam. The exam timer will continue to run during the absence.
- 5. Candidates are permitted to bookmark questions to revisit and can scroll back and forth throughout the exam
- 6. Feedback and comments on any questions should be noted on the clipboard icon. Candidates can enter feedback for each question. Proctors are not permitted to respond to questions regarding content of the exam. These comments will be reviewed by the EDRC prior to the final evaluation.
- 7. In the French version of the exam, rarely used terms or abbreviations are often accompanied in brackets by their better-known English equivalents.
- 8. A candidate may not leave the room at any time without notifying the proctor. If a candidate must leave the room to use the washroom, they may not take books, papers, etc., out of the test writing area with them nor bring books, papers etc. back into the test writing area.

- 9. If a candidate becomes ill when writing the examination, the candidate must advise the proctor.
- 10. Any candidate found cheating will be subject to disciplinary action, removal from the exam, and their results made null and void.
- 11. Following the examination, candidates will be asked to complete an optional, short feedback survey.

## **HPTC Policies and Procedures**

### <u>Appeal</u>

HPTC recognizes the need for a process to allow candidates to appeal their final status on the HPTC National Respiratory Therapy Examination.

### Procedure

- 1. A "Letter of Appeal" must be sent to the Chair of the HPTC Board of Directors in care of the HPTC head office.
- 2. Appeals based on medical conditions must be filed within seven (7) days after the examination date. A valid medical certificate must accompany the appeal. The examination will not be scored after a medical appeal has been granted. No examination results will be provided to any candidate that has a successful medical appeal and their examination fees will be deferred to the next sitting of the examinations. There is no fee associated for medical appeals.
- 3. Appeals based on disqualification due to academic dishonesty must be filed within seven (7) days after receiving the HPTC Board's decision on the infraction. Appeals based on disqualification due to academic dishonesty must be accompanied by a bank certified cheque or money order for \$400.00 (includes HST) fee.
- 4. All other appeals must be filed within seven (7) days from receipt of the results accompanied by a bank certified cheque or money order for \$400.00 (includes HST)
- 5. The appeal will be heard, and a decision rendered by the HPTC Board of Directors within ninety (90) days of receipt of the "Letter of Appeal" from the candidate.
- 6. All fees are to be paid by a *bank certified cheque* or *money order* payable to HPTC/CCSR.

# Accommodation of Special Needs

Candidates with special needs may request special accommodations and arrangements to sit the examination on the scheduled exam date.

If the candidate requires accommodation for a special need, they must access and complete the special accommodation application form available on the registration website when applying for the exam. All requests for special accommodations must be supported with written verification of the nature and extent of the candidate's special needs from a licensed professional verifying the candidate's identified special needs as well as documentation from the educational institution where candidates received their education.

The HPTC exam is only provided in the English or French language. Requests for exam accommodation will not be granted to challenge the exam in any other language.

In order to have special accommodations arranged for the exam, candidates must:

- complete and submit a special accommodations application form
- include appropriate documentation supporting their request
- return the completed special accommodations application form with documentation to the HPTC Head Office
- submit all forms by the exam application deadline, except in unusual circumstances, such as a recent injury

All special accommodation requests are subject to approval by the HPTC Board of Directors on a case by case basis. Candidates will be notified of the decision on their request by telephone or email. Approved special accommodations will be arranged for the candidate at no extra charge.

Criteria that will be taken into account by the HPTC Board of Directors when requests for accommodation are considered include:

- the needs of the candidate
- preservation of the integrity of the examination
- the ability of HPTC to provide resources

No accommodation request will be granted which jeopardizes the integrity or validity of the examination.



HPTC 27 Wyngate Drive Fredericton, NB E3A 9X8 HPTC@HPTC.ca

#### SPECIAL ACCOMMODATION APPLICATION FORM

PRINT OR TYPE ALL INFORMATION	
Name in Full:	
First Name	
Middle Initial	
Surname	
Mailing Address:	
Apt. #Street	
CityF	Province
Postal Code	
Phone NumberEmail address	
Please indicate the school you have or expect to graduate from	om
Indicate at which testing centre you have selected	
In order to request and have special accommodations arrange	· ·
<ul> <li>complete and submit a special accommodations ap</li> <li>include appropriate documentation supporting the</li> </ul>	•
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 return the completed special accommodations application form with documentation to HPTC Head Office.

All forms must be submitted by the exam application deadline, except in unusual circumstances, such as a recent injury.

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Approved special accommodations will be arranged for the candidate at no extra charge.

Criteria that will be taken into account by the HPTC Board of Directors when requests for accommodation are considered include:

- the needs of the candidate
- preservation of the integrity of the examination
- the ability of HPTC to provide resources

### No accommodation request will be granted which jeopardizes the integrity or validity of the examination.

Application Information:

Please state clearly what specific accommodations and/or arrangements you require.

Before submitting, please ensure that the following are attached:

- relevant documentation from your licensed/registered professional
- recent letter from your educational institutions accommodation centre

Signature:\_\_\_\_\_

Date: \_\_\_\_\_

### Nomenclature and Normal Values

22<sup>2</sup>H

All test items have been referenced to the most recent editions of commonly used texts as identified by the accredited Respiratory Therapy programs across Canada.

Exam item content will always be consistent with best practice and not present ambiguity due to conflicting text references.

## Normal Values

The HPTC Exam Development and Review Committee has decided to remove all normal ranges and formulae in the candidate manual.

The committee rationale for this decision was based on the understanding normal differs slightly in a number of textbooks used across the country.

The committee will continue to develop item content which is always consistent with best practice and will not present ambiguity due to conflicting text references.

If you have any questions pertaining to this new practice please do not hesitate to contact the chair of the EDRC at the following e-mail address:

hptc@hptc.ca

Benjamin Rauschning Chair, HPTC Exam Development and Review Committee

# Ventilator Recommendations

- Regional use of makes and models of ventilators vary significantly. Therefore the emphasis of the exam items will be on the operating principles of ventilators classification.
- All modes, breath types and adjuncts currently available across all patient populations may be examined. They will be referred to in their generic terms on the exam.
- Unless a height is specified in a question, assume the patient weight that is provided is the ideal body weight (IBW).
- Unless specified, assume the patient is an adult.

# Pharmacology

In questions pertaining to pharmacology, **only** the generic drug name will be used.

Example: Ventolin<sup>®</sup>, Airomir<sup>™</sup>, and Apo<sup>®</sup>-Salvent **will** appear as salbutamol

# Abbreviations and Symbols

"A"	a ABG AC ACLS ADH A/E AFB AG AIDS ALS AP	arterial alveolar arterial blood gas assist-control ventilation advanced cardiac life support antidiuretic hormone air entry with auscultation acid-fast bacilli anion gap acquired immunodeficiency syndrome amyotrophic lateral sclerosis anterior posterior
	APGAR APRV ARDS ASA ASD ATP ATPD ATPS AV	Appearance, Pulse, Grimace, Activity, Respiration airway pressure release ventilation adult respiratory distress syndrome American Society of Anesthesiologists atrial septal defect adenosine triphosphate ambient temperature and pressure dry ambient temperature and pressure saturated artrioventricular
"B"	BCLS BE BMI BMR BP BSA BPD BTPS BUN	basic cardiac life support base excess body mass index basal metabolic rate blood pressure body surface area bronchopulmonary dysplasia body temperature and pressure saturated blood urea nitrogen
"C"	C C Ca <sup>++</sup> CABG CaO <sub>2</sub> C(a- $\overline{v}$ )O C(a- $\overline{v}$ )O to BSA CBC Cdyn CF CHF CI	arterial to venous oxygen content difference indexed

	CI <sup><math>-</math></sup> cm H <sub>2</sub> O CNS CO CO <sub>2</sub> COHb COPD CPAP CPP CPR C & S CSA CSF Cstat CT CVA C $\overline{v}$ O <sub>2</sub> CVP CXR	chloride centimetres of water pressure central nervous system carbon monoxide (in context) cardiac output carbon dioxide carboxyhemoglobin chronic obstructive pulmonary disease continuous positive airway pressure cerebral perfusion pressure cardiopulmonary resuscitation culture and sensitivity Canadian Standards Association cerebrospinal fluid static compliance computerized tomography cerebrovascular accident oxygen content of mixed venous blood central venous pressure chest x-ray
"D"	DL DL <sub>CO</sub> DO <sub>2</sub>	diffusing capacity diffusing capacity of carbon monoxide oxygen delivery
"Е"	ECG ECMO EEG EF ELBW EOG EMG EMT ER ERV ETCO <sub>2</sub> ETT	electrocardiogram extra corporeal membrane oxygenation electroencephalogram ejection fraction extremely low birth weight infant electrooculogram electromyogram emergency medical technician emergency room/department expiratory reserve volume end-tidal carbon dioxide endotracheal tube
"F"	f FEF <sub>25-75</sub> FEV <sub>1</sub> FEV <sub>1</sub> /FVC F <sub>1</sub> O <sub>2</sub> FR FRC FVC	frequency forced expiratory flow between 25% and 75% of vital capacity (MEFR) forced expiratory volume at one second ratio of exhaled volume at one second to forced vital capacity fraction of inspired oxygen French (sizes) functional residual capacity forced vital capacity

	$F_{ET}CO_2$	fractional exhaled end tidal CO <sub>2</sub>
	$F_ECO_2$	fractional mixed exhaled CO <sub>2</sub>
	FVL	flow volume loop
	f/V <sub>T</sub>	rapid shallow breathing index
"G"	g	gram
	GCS	Glasgow coma scale
	GERD	gastroesophageal reflux disease
	GI	gastrointestinal
	$G_x P_x A_x$	gravida, partum, abortion : gynecological terms used to represent
		number of pregnancies (G), number of live births (P) and number of
		abortion (A); x = number of
"H"	Hb	hemoglobin
	HbCO	carboxyhemoglobin
	HbF	fetal hemoglobin
	Hbmet	methemoglobin
	НВО	hyperbaric oxygen
	HbO <sub>2</sub> /O <sub>2</sub> Hb	oxyhemoglobin
	HCO <sub>3</sub> -	bicarbonate
	Hct	hematocrit
	HFJV	high frequency jet ventilation
	HFO	high frequency oscillation
	HIV	Human Immunodeficiency Virus
	HMD	hyaline membrane disease
	HME	heat and moisture exchanger
" "	IBW	ideal body weight
	IC	inspiratory capacity
	ICP	intracranial pressure
	ICU	intensive care unit
	I:E	inspiratory to expiratory time ratio
	INR	international normalized ratio of prothrombin time
	IPPA	inspection, palpation, percussion, auscultation
	IRV	inspiratory reserve volume
"K"	kg	kilogram
	K <sup>+</sup>	Potassium
"L"	L	litre
	LAP	left atrial pressure
	LLL	left lower lobe
	L:S (ratio)	lecithin : sphingomyelin
	LUL	left upper lobe
	LVEDP	left ventricular end-diastolic pressure
	LVH	left ventricular hypertrophy
	LVSV	left ventricular stroke volume
	LVSW	left ventricular stroke work

"M"	m	meter
IVI	MAC	minimum alveolar concentration
	MAP	mean arterial pressure
	MAS	meconium aspiration syndrome
	MDI	metered dose inhaler
	MEP	maximum expiratory pressure
	Mg <sup>++</sup>	magnesium
	MI	myocardial infraction
	MIP	maximum inspiratory pressure
	mm Hg	millimetres of mercury pressure (torr)
	MOV	minimal occluding volume
	MRSA	methicillin resistant staphylococcus aureus
	MVA	motor vehicle accident
	MVV	maximum voluntary ventilation
	MMV	mandatory minute ventilation
	mmol	millimole
	mL	milliliter
	mg	milligram
"N"	Na <sup>⁺</sup>	sodium
	NIBP	noninvasive blood pressure
	NIPPV	noninvasive positive pressure ventilation
	NO	nitric oxide
	NO <sub>2</sub>	nitrogen dioxide
	N <sub>2</sub> O	nitrous oxide
	NPPV	noninvasive positive pressure ventilation
	NPV	negative pressure ventilation
	NREM	non-rem sleep
	NTT	nasotracheal tube
	NPO	nothing by mouth
"0"	O/A	on auscultation
	O/E	on examination
	O <sub>2</sub>	oxygen
	O <sub>2</sub> ER	oxygen extraction
	01	oxygen index
	OR	operating room
"P"	Р	pressure
	P <sub>50</sub>	partial pressure of oxygen at 50% HbO <sub>2</sub>
	PĂ	pulmonary artery
	P <sub>A</sub>	alveolar pressure
	P <sub>Plateau</sub>	plateau pressure
	P(A-a)O <sub>2</sub>	alveolar to arterial oxygen gradient
	PAC	premature atrial pressure
	PAP	pulmonary artery pressure
	ΡΑΡ	mean pulmonary artery pressure

PAT	paroxysmal atrial tachycardia
PAV	proportional assist ventilation
Paw	airway pressure (proximal)
$P_{\overline{AW}}$ or $P_{AW}$	mean airway pressure
PCWP(PAOP)	
PB	barometric pressure
PCV	pressure control ventilation
PDA	patent ductus arteriosus
P <sub>E</sub> CO <sub>2</sub>	pressure of mixed exhaled carbon dioxide
PEEP	positive end-expiratory pressure
PEFR	peak expiratory flowrate
PEP	peak expiratory pressure
P <sub>ET</sub> CO <sub>2</sub>	pressure of end-tidal carbon dioxide
PFT	pulmonary function testing
рН	standardized hydrogen ion activity
Phigh	pressure high
PIF	peak inspiratory flow
PIP	peak inspiratory pressure
Plow	pressure low
PNIP	peak negative inspiratory pressure
PPHN	persistent pulmonary hypertension of the newborn
ppm	parts per million
PPV	positive pressure ventilation
PRVC	pressure regulated volume control
PS	pressure support
PSV	pressure support ventilation
PT	prothrombin time
PTT	partial thromboplastin time
PVC	premature ventricular contraction
	pressure of carbon dioxide in mixed venous blood
	pressure of oxygen in mixed venous blood
PVR	pulmonary vascular resistance
PVRI	pulmonary vascular resistance index
$Q_s / Q_t$	shunted cardiac output ratio
Qt	cardiac output
R <sub>AW</sub>	airway resistance
RBC	red blood cell
RDS	respiratory distress syndrome
REM	rapid eye movement
RLL	right lower lobe
RML	right middle lobe
ROP	retinopathy of prematurity
RQ	respiratory quotient
RR	respiratory rate
RSBI	rapid shallow breathing index
	24

"Q"

"R"

	RSV	Respiratory Syncytial Virus
	RUL	right upper lobe
	RV	residual volume
	RVH	right ventricular hypertrophy
"S"	SaO <sub>2</sub>	arterial oxygen saturation
	SBT	spontaneous breathing trial
	SIDS	sudden infant death syndrome
	SIMV	synchronized intermittent mandatory ventilation
	SLE	systemic lupus erythematosus
	SOAP	subjective, objective, assessment, plan
	SOB	shortness of breath
	SOBOE	shortness of breath on exertion
	$S_pO_2$	oxygen saturation by pulse oximetry
	STPD	temperature $0^{0}$ C, pressure 760 mm Hg and dry
	SvO2	mixed venous oxygen saturation
	SVC	slow vital capacity
	SVR	systemic vascular resistance
	SVRI	systemic vascular resistance index
"T"	Т	temperature
	ТВ	tuberculosis
	тс	time constant
	TCO <sub>2</sub>	total CO <sub>2</sub>
	T <sub>cPO2</sub>	transcutaneous pressure of oxygen
	TE	expiratory time
	T <sub>high</sub>	time high
	TI	inspiratory time
	T <sub>ID</sub>	dynamic inspiratory time
	T <sub>IS</sub>	static inspiratory time
	TLC	total lung capacity
	T <sub>low</sub>	time low
	TTN	transient tachypnea of the newborn
"U"	URTI	upper respiratory tract infection
	UAC	umbilical artery catheter
	UVC	umbilical venous catheter
"V"	VE	minute volume of expired volume per minute (BTPS)
	VA	minute alveolar ventilation
	VC	vital capacity
	VCO <sub>2</sub>	carbon dioxide production (STPD) per minute
	VD	deadspace
	$V_D/V_T$	deadspace to tidal volume ratio
	VLBW	very low birth weight infant
	V <sub>max(x)</sub>	maximum flow where $(x) = \%$ of volume

	VO <sub>2</sub> vol%	oxygen consumption per minute concentration (percent per volume)
	V/Q	ventilation/perfusion ratio
	VS	volume support
	VSD	ventricular septal defect
	VT	tidal volume
	V <sub>T(del)</sub>	delivered tidal volume
	$V_{TG}$	thoracic gas volume
"W"	WBC	white blood cell
	WHMIS	Workplace Hazardous Materials Information System

Revised: February 2023