ANESTHESIOLOGY

Standard Abbreviations

—Updated September 17, 2020—

ABG	arterial blood gas
ACLS	Advanced Cardiac Life Support
ADP	adenosine diphosphate
Afterdrop	OK to use, but define at first mention (rapid increase in core temperature after
	discontinuation of cardiopulmonary bypass)
AIDS	acquired immunodeficiency syndrome (spell out first time only, abbreviation OK in
	titles, heads)
AKI	acute kidney injury
AM*	ante meridian (morning; small caps, same for PM)
AMP	adenosine monophosphate
ANH	autologous normovolemic hemodilution
ANOVA*	analysis of variance
APACHE	Acute Physiology and Chronic Health Evaluation Score
ARDS	"adult respiratory distress syndrome" and "acute respiratory distress syndrome"
ASA	American Society of Anesthesiologists (spell out first time only in ASA physical
ASA	status I, II, abbreviation OK in titles, heads)
AT	antithrombin III or antithrombin
ATIII	antithrombin III or antithrombin
ATP	adenosine triphosphate
ATPase	adenosine triphosphatase
AUC	area under the receiver operating characteristics curve
bid	two times per day or two times daily (spell out)
BIS	Bispectral Index (important: see "Trademarks and Registered Marks" section)
bpm	breaths/min or beats/min depending on context; do not use bpm
BP	spell out to "blood pressure" (do not abbreviate)
G 21	
Ca ²⁺	calcium (do not need to spell out)
CaO ₂	arterial oxygen content (small cap o)
CABG	coronary artery bypass graft
cAMP	cyclic adenosine monophosphate
CcO ₂	capillary oxygen content (small cap o)
CCSO ₂	coronary sinus oxygen content (small cap CSO)
CCT	central conduction time

cDNA*	Ok as is, do not spell out
C _{dyn}	dynamic compliance
CHCT	caffeine-halothane contracture test
CI*	confidence interval
cm H ₂ O*	centimeters water (with space)
CNS	central nervous system
CO	carbon monoxide or cardiac output
CO	carbon dioxide (always spell out, unless used with amount, then always abbreviate;
CO_2	same for O_2 , NO , N_2O , $etc.$)
COPD	chronic obstructive pulmonary disease
CPB	cardiopulmonary bypass
CPP	coronary perfusion pressure
CPR	cardiopulmonary resuscitation
CSF	cerebrospinal fluid
CvO ₂	mixed venous oxygen content (small cap O)
CVP	central venous pressure
CVR	coronary vascular resistance
CVS	cardiovascular system
Da	dalton (Da [cap D], but kd [lowercase d])
DBP	diastolic blood pressure
DIC	disseminated intravascular coagulation
DNA*	OK as is, do not spell out
DNR	do not resuscitate [n]; do-not-resuscitate [adj]
DOAC	direct oral anticoagulant
DREADDs	Designer Receptors Exclusively Activated by Designer Drugs
DTI	direct thrombin inhibitor
EC50*	effective concentration, 50% of subjects (OK abbreviated) (no subscript)
EC50*	effective concentration producing 50% of maximal effect (subscript)
EC95*	effective concentration, 95% of subjects (OK abbreviated) (no subscript)
ED50*	effective dose, 50% of subjects (OK abbreviated) (no subscript)
ED ₅₀ *	effective dose producing 50% of maximal effect (subscript)
ED95*	effective dose, 95% of subjects (OK abbreviated) (no subscript)
ECG	electrocardiogram, -graph, -graphy, -graphic (never abbreviate)
EEG	electroencephalogram or electroencephalography (spell out at first mention)
EENT	eyes, ears, nose, throat (can be reworded to "otolaryngologic" [query if changed
	during editing])

ECMO	extracorporeal membrane oxygenation
EDTA*	Do not query, OK to leave abbreviated
EGTA*	Do not query, OK to leave abbreviated
ELISA	enzyme-linked immunosorbent assay
EMG	electromyography (spell out at first mention)
et al.*	never spell out (italic with period); change "and coworkers" or "and colleagues" to et al.
ETCO ₂	end-tidal carbon dioxide (small cap CO)
ETO ₂	end-tidal oxygen (small cap O)
ETT	endotracheal tube
FAER	Foundation for Anesthesia Education and Research
FEO ₂	mixed expired oxygen fraction; fraction of expired oxygen (small cap EO)
FIO ₂	fractional inspired oxygen tension; inspired oxygen fraction; fraction of inspired oxygen; inspiratory oxygen fraction (small cap IO; no unit of measure)
FEV ₁	forced expiratory volume in 1 s
FFP	fresh frozen plasma
Fr or F	French (always spell out: an 18-French catheter); OK abbreviate in tables
FRC	functional residual capacity
G or g	gauge (always spell out; hyphenate when used as a needle size: 18-gauge Tuohy needle)
GABA	γ-aminobutyric acid
GABAA	γ-aminobutyric acid type A
GABAerg ic	γ-aminobutyric acid–mediated (abbreviation OK in title; abbreviation OK in text, abstract, etc., always expand at first mention; print as GABAergic with capital first 4 letters, lowercase last 5 letters).
Gq	Galpha(q)
h†	Hour
11	Hou
Hb	hemoglobin (spell out unless in list of values or equation)
Hb	hemoglobin (spell out unless in list of values or equation)
Hb Hct	hemoglobin (spell out unless in list of values or equation) hematocrit (spell out unless in list of values or equation) (Do not query, Do not spell out) N-2-Hydroxyethylpiperazine-N'-2-
Hb Hct HEPES*	hemoglobin (spell out unless in list of values or equation) hematocrit (spell out unless in list of values or equation) (Do not query, Do not spell out) N-2-Hydroxyethylpiperazine-N'-2-ethanesulfonic acid
Hb Hct HEPES*	hemoglobin (spell out unless in list of values or equation) hematocrit (spell out unless in list of values or equation) (Do not query, Do not spell out) N-2-Hydroxyethylpiperazine-N'-2- ethanesulfonic acid heparin-induced thrombocytopenia

ICH	intracranial hemorrhage
ICP	intracranial pressure
ICU	intensive care unit
ID*	inner diameter (do not spell out)
im, IM	intramuscular (always spell out in text; must define if used for space considerations in tables/figures)
INR	international normalized ratio
ip, IP	intraperitoneal (always spell out in text; must define if used for space considerations in tables/figures)
IRB	institutional review board
it, IT	intrathecal (always spell out in text; must define if used for space considerations in tables/figures)
IU	international units; change to U (don't need to define U)
iv, IV*	intravenous (always define in tables/figures)
KH ₂ PO ₄	potassium phosphate
kPa*	(pressure unit; query author to convert kPa to mmHg)
LAD	left anterior descending [adj]; left anterior descending artery; left anterior descending coronary artery
L-NAME	N-nitro-L-arginine methylester or N ^G -nitro-L-arginine methylester (L always small cap)
L- NMMA*	(small cap L; OK not spelled out)
LPS	lipopolysaccharide
L-type*	long-lasting, high-threshold (channel)
LVEDP	left ventricular end-diastolic pressure
MAC	minimum alveolar concentration (spell out on 1st mention, regardless of times used) Note: This is a unit of measure (e.g., 0.4 MAC)
MACawake	(subscript lowercase "awake")
MAP	mean arterial pressure
MH	malignant hyperthermia
MI	myocardial infarction; myocardial ischemia
mmHg*	millimeters mercury (pressure unit; query author to convert kPa to mmHg)
MPAP	mean pulmonary arterial pressure
mRNA	messenger RNA (okay to use abbreviation in title but it must be spelled out at first use in the text)

MRT	mean residence time
MTP	massive transfusion protocol
MVO ₂	myocardial uptake of oxygen (small cap O)
N ₂	nitrogen (abbreviate only when used with amount)
N ₃	nitrate (abbreviate only when used with amount)
NADH*	OK as is, do not spell out
NADPH*	OK as is, do not spell out
NMDA	N-methyl-D-aspartate (small cap D in full expansion, not in abbreviation)
NO*	nitric oxide
NOAC	non-vitamin K oral anticoagulant
N ₂ O*	nitrous oxide (spell out unless used with an amount)
NOinsp	inspiratory concentration of nitric oxide
NPO	non per os (nothing by mouth)
NSAID	nonsteroidal anti-inflammatory drug
O_2	oxygen (spell out unless used with amount)
OD*	outer diameter
OSA	obstructive sleep apnea
OTF	Oral Transmucosal Fentanyl Citrate (OTFC is the trademarked abbreviation)
P ₅₀	50% saturation
PAO2*	partial pressure of alveolar oxygen (small cap AO)
PACO ₂ *	partial pressure of alveolar carbon dioxide (small cap ACO)
PaCO ₂ *	arterial carbon dioxide tension (small cap CO)
PACU	postanesthesia care unit
PaO ₂ *	arterial oxygen tension (small cap O)
PAOP	pulmonary artery occlusion pressure
PAP; Ppa	pulmonary artery (or arterial) pressure
Paw	airway pressure
PCA	patient-controlled analgesia
PCC	prothrombin complex concentrate
PCI	percutaneous coronary intervention(s) [should be defined at first use, and not used in
PCI	abstracts]
PCP	pulmonary capillary pressure
PCSO ₂	coronary sinus pressure of oxygen (small cap CSO)
PCWP	pulmonary capillary wedge pressure
PECO ₂	mixed expired carbon dioxide pressure (small cap ECO)

PEEP	positive end-expiratory pressure (cm H ₂ O)
Peso	esophageal pressure
PETCO ₂	end-tidal pressure of carbon dioxide (small cap ETCO)
PF4	platelet factor 4
<i>p</i> H*	Respiration
pH*	hydrogen ion concentration (acidity/base)
PIPES*	OK as is, do not query
pKa	the negative log of the acid dissociation constant
PM*	post meridian (afternoon; small caps, same for AM)
P_{MAX}	peak airway pressure (subscript small cap "MAX"; lowercase "max" when modifier
1 MAX	is small cap)
P_{MEAN}	mean airway pressure (subscript small cap "MEAN"; lowercase "mean" when
I MEAN	modifier is small cap)
PO2*	partial pressure of oxygen (small cap O)
ppm*	parts per million
psi*	pounds per square inch (OK nonmetric)
PT	prothrombin time
PTT	partial thromboplastin time
PvCO ₂	mixed venous carbon dioxide tension (small cap CO)
PvO ₂	mixed venous oxygen tension (small cap o)
PVR	pulmonary vascular resistance
Qid	four times per day or four times daily (do not use this abbreviation/always spell out)
QoR	Quality of Recovery (used as QoR-12, QoR-15, QoR-40, which is a specific patient test.)
QRS	combination of three of the graphical deflections seen on a typical electrocardiogram
complex*	combination of three of the graphical deflections seen on a typical electrocardiogram
Qva/QT	venous admixture
Q_s/Q_T	venous admixture
Q	cardiac output value (Q with overdot)
Q т	cardiac output value (Q with overdot)
Raw	airway resistance
REM	rapid eye movement
RNA*	ribonucleic acid (never spell out)
ROTEM	rotational thromboelastometry
RR	respiratory rate (breaths/min)

RR interval*	inter-beat interval
SaO ₂	arterial oxygen saturation (small cap o)
SBP	systolic blood pressure
ScO ₂	alveolar carbon dioxide slope (small cap O)
SD*	standard deviation (never spell out)
SEM*	standard error of the mean
SIC	sepsis-induced coagulopathy
SOFA	Sequential Organ Failure Assessment
SpO ₂	oxygen saturation measured by pulse oximetry (small cap o)
SSEP	somatosensory evoked potentials
ST segment*	DO NOT ABBREVIATE
SV	stroke volume
SvO ₂	mixed venous oxygen saturation (small cap O)
SVR	systemic vascular resistance
TD50 TD95*	toxic dose, 50% of subjects (OK abbreviated) (no subscript) toxic dose, 95% of subjects (OK abbreviated) (no subscript)
TEE	transesophageal echocardiography
TEG	thromboelastogram
TIC	traumatic induced coagulopathy
Tid	three times per day or three times daily (do not use this abbreviation/always spell out)
Tpa	tissue plasminogen activator
TT	thrombin time
U	units: always change IU to U, and only spell out when used with blood (hemoglob etc.)
V	flow; air flow (V with overdot)
Ċ _A /Q	ventilation/perfusion ratio (V and Q with overdot)
VAS	visual analogue scale
VСО2	carbon dioxide output (V with overdot; small cap CO)
V _D /V _T	dead space ventilation
VE	minute ventilation (V with overdot)
Ϋ́E	minute volume (V with overdot)

VKA	vitamin K antagonist
VO ₂	oxygen uptake (V with overdot; small cap O)
V/Q	ventilation/perfusion ratio (V and Q with overdot)
Vss	volume of distribution at steady state
VTE	venous thromboembolism
$V_{\rm T}$	tidal volume (ml/kg)
vWF	von Willebrand factor

^{*}Abbreviation marked by an asterisk may be used without expansion in text, titles, and headings.