
Acronyms and abbreviations

5-HT	5-hydroxytryptamine (serotonin)
AA	auricular acupuncture
AAN	Australian Approved Names
AAP	American Academy of Paediatrics
AAPD	American Academy of Paediatric Dentistry
AAPM	American Academy of Pain Medicine
ACE	angiotensin-converting enzyme
ACT	acceptance and commitment therapy
ACTH	adrenocorticotrophic hormone
ADH	antidiuretic hormone
ADHD	attention deficit hyperactivity disorder
AHI	apnoea-hypopnoea index
AIDS	acquired immunodeficiency syndrome
ALA	adrenaline, lignocaine, amethocaine
AMPA	α -amino-3-hydroxyl-5-methyl-4-isoxazole-propionate
ANZCA	Australia and New Zealand College of Anaesthetists
APS	acute pain service
ASA	American Society of Anesthesiologists
ASIC	acid-sensing ion channel
ASRA	American Society of Regional Anesthesia and Pain Medicine
ATP	adenosine triphosphate
BDNF	brain-derived neurotrophic factor
BIS	Bispectral Index (depth of anaesthesia)
BK	bradykinin
BMI	body mass index
BPS	Behavioural Pain Scale
CABG	coronary artery bypass graft
CAGE	“cut-annoyed-guilty-eye” screening questionnaire for problematic alcohol use
CAIP	channelopathy-associated insensitivity to pain
CaLD	culturally and linguistically diverse
CAM	complementary and alternative medicine
CB ₁	cannabinoid type 1
CB ₂	cannabinoid type 2
CBT	cognitive behavioural therapy
CCK	cholecystokinin
CCL3	chemokine (C-C motif) ligand 3
CGRP	calcitonin gene-related peptide

CHEOPS	Children's Hospital of Eastern Ontario Pain Scale
CIPA	congenital insensitivity to pain with anhydrosis
CIPN	chemotherapy-induced peripheral neuropathy
CKD	chronic kidney disease
C _{max}	maximum serum concentration
CNCP	chronic non-cancer related pain
CNS	central nervous system
CO ₂	carbon dioxide
COMT	catechol-O-methyltransferase
COPD	chronic obstructive pulmonary disease
COX-2	cyclooxygenase-2
CPAP	continuous positive airway pressure
CPM	continuous passive movement
CPNB	continuous peripheral nerve block
CPNC	continuous peripheral nerve catheters
CPOT	Critical-Care Pain Observation Tool
CPSP	chronic postsurgical pain
CR	controlled-release
CRIES	Cries, Requires oxygen, Increased vital signs, Expression, Sleeplessness
CRPS	chronic regional pain syndrome
CSE	combined spinal epidural
CSF	cerebrospinal fluid
CSI	central sensitisation inventory
CT	computer tomography
CTG	cardiotocograph
d	day
DALY	disability-adjusted life years
DAMP	damage-associated molecular pattern
DHE	dihydroergotamine
DIS	daily interruption of sedation
DLF	dorsolateral funiculus
DN 4	Douleur Neuropathique 4
dNCR	delayed neurocognitive recovery
DNIC	diffuse noxious inhibitory control
DRG	dorsal root ganglia
Drt	dorsal reticular nucleus
EA	Electro acupuncture (in paediatrics: Emergence agitation)
EBP	epidural blood patch
EC ₅₀	Half maximal effective concentration

ECF	extracellular fluid
ECG	electrocardiogram
ED	emergency department
EDIN	Échelle Douleur Inconfort Nouveau-Né
EEG	electroencephalogram
eg	for example (<i>exempli gratia</i>)
EMA	European Medicines Agency
EMG	electromyelograph
ERAS	enhanced recovery after surgery
ERCP	endoscopic retrograde cholangiopancreatography
ERD	erosive reflux disease
EREM	extended-release epidural morphine
ES	effect size
ESA	European Society of Anaesthesiology
ESI	epidural steroid injection
ESPB	erector spinae plane block
ESRA	European Society of Regional Anaesthesia and Pain Medicine
EVENDOL	Evaluation ENfant DOuLeur
FANS	Faceless Acute Neonatal Pain Scale
FAS	Functional Activity Scale
FBSF	fentanyl buccal soluble film
FBT	fentanyl buccal tablets
FDA	Food and Drugs Administration (USA)
FLACC	Faces, Legs, Activity, Cry and Consolability
fmRI	functional magnetic resonance imaging
FNB	femoral nerve block
FPM	Faculty of Pain Medicine
FPS	Faces Pain Scale
FPS-R	Faces Pain Scale-Revised
g	gram
G-CSF	granulocyte-colony stimulating factor
GABA	gamma-amino butyric acid
GANB	greater auricular nerve block
GDNF	glial-derived neurotrophic factor
GFR	glomerular filtration rate
GM-CSF	granulocyte macrophage-colony stimulating factor
H3G	hydromorphone-3-glucuronide
h	hour
HIV	human immunodeficiency virus

HL	heel lance
HRV	heart rate variability
HSAN	hereditary sensory and autonomic neuropathy
IA	intra articular
IASP	International Association for the Study of Pain
IC	intercostal
ICB	intercostal block
ICD	International Classification of Diseases
ICF	intracellular fluid
ICU	intensive care unit
ICV	intracerebroventricular
ID	intellectual disability
ie	that is (<i>id est</i>)
IL	interleukin
IM	intramuscular(ly)
IN	intranasal(ly)
INN	International Nonproprietary Name
INR	International Normalised Ratio
INRS	Individualised Numeric Rating Scale
IR	immediate-release
IT	intrathecal(ly)
IV	intravenous(ly)
IVRA	intravenous regional anaesthesia
JIA	juvenile idiopathic arthritis
LANSS	Leeds Assessment of Neuropathic Symptoms and Signs
LAST	local anaesthetic systemic toxicity
LBP	low back pain
LEA	lumbar epidural analgesia
LIA	local infiltration analgesia
LLLT	low-level laser therapy
LMWH	low molecular weight heparin
LTP	long-term potentiation
M1	O-desmethyltramadol
M3G	morphine-3-glucuronide
M6G	morphine-6-glucuronide
MAM	monoacetylmorphine
MBI	mindfulness-based interventions
mcg	microgram
MDMA	N-Methyl-3,4-methylenedioxyamphetamine (ecstasy)

MDR	multidrug resistance protein
MED	morphine equivalent dose
min	minute
mg	milligram
mGluR	metabotropic glutamate receptor
MHRA	Medicines and Healthcare Products Regulatory Agency (UK)
mL	millilitre
MLAC	minimum local anaesthetic concentration
mm	millimetre
MME	morphine mg equivalents
MPQ	McGill Pain Questionnaire
MRI	magnetic resonance imaging
MS	multiple sclerosis
N-PASS	Neonatal Pain, Agitation and Sedation Scale
month	month
N ₂ O	nitrous oxide
NAC	N-acetylcysteine
NAPBQI	<i>N</i> -acetyl- <i>p</i> -benzoquinone imine
NAS	neonatal abstinence syndrome
NCA	nurse-controlled analgesia
NCAPC	Non-Communicating Adult Pain Checklist
NCCPC-PV	Non-Communicating Children's Pain Checklist — postoperative version
NCCPC-R	Non-Communicating Children's Pain Checklist
NFCS	Neonatal Facial Coding Scale
ng	nanogram
NGF	nerve growth factor
NHMRC	National Health and Medical Research Council
NICU	neonatal intensive care unit
NIPS	Neonatal Infant Pain Scale
NIRS	near infrared spectroscopy
NK1	neurokinin-1
NMDA	N-methyl-D-aspartate
NNH	number needed to harm
NNS	non-nutritional sucking
NNT	number needed to treat
NOAC	new oral anticoagulant
NPQ	Neuropathic Pain Questionnaire
NRS	numerical rating scale
NSAID	nonsteroidal anti-inflammatory drug

NSAID-ERD	NSAID-exacerbated respiratory disease
nsNSAID	nonselective non-steroidal anti-inflammatory drug
OCT1	organic cation transporter
ODI	Oswestry Disability Index
ODT	orally disintegrating tablet
OHS	obesity hypoventilation syndrome
OIH	opioid-induced hyperalgesia
OIVI	opioid-induced ventilatory impairment
ONJ	osteonecrosis of the jaw
OPRM1	opioid receptor mu-1
ORT	opioid risk tool
OSA	obstructive sleep apnoea
OST	opioid substitution therapy
OTFC	oral transmucosal fentanyl citrate
OUD	opioid use disorder
P ₂ X ₃	purinergic receptor subtype
PaCO ₂	Partial pressure of carbon dioxide in arterial blood
PACU	postanaesthesia care unit
PAG	periaqueductal grey
PaO ₂	Partial pressure of oxygen in arterial blood
PAR	proteinase-activated receptor
PBM	photobiomodulation
PCA	patient-controlled analgesia
PCC	percutaneous cervical cordotomy
PCEA	patient-controlled epidural analgesia
PCINA	patient-controlled intranasal analgesia
PCS	Pain Catastrophising Scale
PDA	patent ductus arteriosus
PDMP	Prescription Drug Monitoring Program
PDPH	postdural puncture headache
PET	positive emission tomography
PGB	pelvic girdle pain
PGE ₂	prostaglandin E2
PGI ₂	prostacyclin
PICC	peripherally inserted central catheter
PICU	paediatric intensive care unit
PIEB	programmed intermittent boluses
PIPP	Premature Infant Pain Profile
PNB	peripheral nerve block

PND	perioperative neurocognitive disorders
PNS	peripheral nerve stimulation
POCD	postoperative cognitive dysfunction
PON	postoperative nausea
PONS	postoperative neurological symptoms
PONV	postoperative nausea and vomiting
POV	postoperative vomiting
PPDA	postoperative pain days averted
PPI	proton pump inhibitor
PPP	Paediatric Pain Profile
PPPM	Parents Postoperative Pain Measure
prn	<i>pro re nata</i> (as needed)
PROSPECT	PROcedure-SPECific postoperative pain management
PSF	posterior spinal fusion
PTA	Polymyxin E, tobramycin and amphotericin B
PTSD	post-traumatic stress disorder
PVB	paravertebral block
QALY	quality-adjusted life years
qid _[gp1]	four times daily dosing
QoL	quality of life
QoR	quality of recovery
QST	quantitative sensory testing
RANKL	receptor activator of nuclear factor kappa-B ligand
RAP	recurrent abdominal pain
RASS	Richmond Agitation-Sedation Scale
RCT	randomised controlled trial
REMS	Risk Evaluation and Mitigation Strategy
RFID	radiofrequency identification
RID	relative infant dose
ROP	retinopathy of prematurity
RSB	rectus sheath block
rTMS	repetitive transcranial magnetic stimulation
RVM	rostroventromedial medulla
s	second
SACD	subacute combined degeneration
SAS	Sedation-Agitation Scale
SC	subcutaneous(ly)
SCC	spinal cord compression
SCD	sickle cell disease

SCI	spinal cord injury
SDB	sleep-disordered breathing
SF-36	Short Form 36 of Medical Outcomes Study
SF-MPQ	Short Form of McGill Pain Questionnaire
SHORE	Social and Health Outcomes Research and Evaluation
SIADH	Syndrome of inappropriate antidiuretic hormone secretion
SIP	Sickness Impact Profile
SL	sublingual(ly)
SNP	single-nucleotide polymorphism
SNRI	serotonin–norepinephrine-reuptake inhibitors
SOAPP-R	Screeener and Opioid Assessment for Patients with Pain-Revised
SPID	summed pain intensity difference
SR	slow-release
SRE	skeletal related events
SRW	standardised regression weights
SSRI	selective serotonin-reuptake inhibitor
SSTS	sublingual sufentanil tablet system
SUD	substance use disorder
SUNCT	Short-lasting Unilateral Neuralgiform headache attacks with Conjunctival injection and Tearing
TAPB	transversus abdominis plane block
TBSA	total body surface area
TCA	tricyclic antidepressant
TD	transdermal(ly)
TdP	Torsades de Pointes
TEA	thoracic epidural analgesia
TEAS	transcutaneous electrical acupoint stimulation
TENS	transcutaneous electrical nerve stimulation
TGA	Therapeutic Goods Administration
THA	total hip arthroplasty
THC	tetrahydrocannabinol
TIRF	transmucosal immediate-release fentanyl medicines
TKA	total knee arthroplasty
T _{max}	time to reach maximum serum concentration
TMD	temporomandibular disorder
TMJ	temporomandibular joint
TNF	tumour necrosis factor
TNS	transient neurological symptoms
TOTPAR	total pain relief
TrkA	tyrosine kinase receptor

TRP	transient receptor potential
TRPV1	transient receptor potential vanilloid 1
TTH	tension-type headache
URL	uniform resource locator
US	ultrasound
USA	Unites States of America
US\$	USA dollar
USAN	United States Adopted Name
VATS	video-assisted thoracic surgery
VAS	visual analogue scale
Vd	volume of distribution
VDS	verbal descriptor scale
VIGOR	Vioxx Gastrointestinal Outcomes Research
VNRS	verbal numerical rating scale
VOC	vaso-occlusive crisis
VPL	ventral posterolateral nucleus of the thalamus
VPM	ventral posteromedial nucleus of the thalamus
VR	virtual reality
VZV	varicella-zoster virus
WBFPRS	Wong-Baker Faces Pain Rating Scale
WHO	World Health Organization
WISP	withdrawal-associated injury site pain
wk	week
WOMAC	Western Ontario and McMaster Universities Osteoarthritis Index
y	year

Methodological and statistical terms

aHR	adjusted hazard ratio
aOR	adjusted odds ratio
aRR	adjusted relative risk
BS	basic science or animal data
CCT	case-controlled trial
CI	confidence interval
CPG	clinical practice guideline
CR	case report
EH	experimental human studies
GL	clinical practice guideline
HR	hazard ratio
IRR	incidence rate issue

JS	Jadad Score
MD	mean difference
NMA	network meta-analysis
NNH	number-needed-to-harm
NNT	number-needed-to-treat
NR	narrative review
OR	odds ratio
PK	pharmacokinetic study
PRISMA	Preferred Reporting Items for Systematic Reviews and Meta-Analyses
QUOROM	Quality of Reporting of Meta-analyses
r	correlation coefficient
RCT	randomised controlled trial
RD	risk difference
RR	relative risk
SMD	standardised mean difference
SR	systematic review
SRW	standardised regression weights
WMD	weighted mean difference