Cerebral autoregulation: from minutes to seconds

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Abbreviations

ABP	arterial blood pressure
ARI	autoregulatory index
CA	cerebral autoregulation
cHHb	cerebral deoxygenated Hb content
cO_2Hb	cerebral oxygenated Hb content
CPP	cerebral perfusion pressure
CrCP	critical closing pressure
CSFP	cerebrospinal fluid pressure
CT	computed tomography
CVRi	cerebral vascular resistance index
dCA	dynamic cerebral autoregulation
f	breathing frequency
FinAP	finger arterial pressure
gCBF	global cerebral blood flow
Hb	hemoglobine
HF	high frequency
HR	heart rate
HUT	head-up tilt
IAP	intra arterial pressure
LBNP	lower body negative pressure
LF	low frequency
LS	lacunar ischemic stroke
MABP	mean arterial blood pressure
MCAV	middle cerebral artery blood velocity
MCAS	middle cerebral artery territory stroke
MRI	magnetic resonance imaging
MVCP	mean venous cerebral pressure
NIHSS	National Institute of Health stroke scale
NIRS	near infra-red spectroscopy
P_aCO_2	arteial carbon dioxide pressure
P_aO_2	arterial oxygen pressure
$P_{ET}CO_2$	end-tidal carbon dioxide pressure
Q	cardiac output
S_aO_2	arterial oxygen saturation
SNP	soduim nitroprusside
RS	reference subjects
sCA	static cerebral autoregulation
SGB	stellate ganglion blockade
SV	stroke volume
SVR	systemic vascular resistance
TCD	transcranial Doppler
V_E	pulmonary ventilation
V_E/Q	pulmonary ventilation perfusion ratio
VLF	very low frequency
$V CO_2$	carbon dioxide production
$V O_2$	oxygen consumption
VT	tidal volume

$\Delta P_{(a\text{-}et)}CO_2$ arterial to end-tidal carbon dioxide difference.