

Index

A

- ABC scheme 471
- ACE inhibitors 278
 - dilated cardiomyopathy 285
- acepromazine 64, 172
 - Boxer 65
 - cardiovascular effects 280
 - dog 171, 174
 - dosages 66
 - epileptic seizures dog/
cat 304
 - ferret 206
 - horse 224
 - maximum dosages 66
 - seizures 66
 - spleen 65
 - stallion 65
- acidaemia 394
- acid-base balance 386,
392–393
 - acid-base disorders 393
 - acid-base disorders, com-
pensation 394
 - kidney patients 315
 - liver patients 322
- acidosis 164
 - metabolic 315, 393–395
 - respiratory 393–395
- Adam-Stokes syndrome 109
- Addison's disease 91
- adolescent animal 262
- adrenaline, cardiopulmonary
resuscitation (CPR) 353, 476
- afterload 278
- agitation 89
- airway management 153
- airway obstruction 153
- airway protection 301
- airways, pig 253
- aldosterone 92
- alfaxalone 67
 - cardiovascular effects 280
 - cat 187, 293
 - dog 177
 - dosages 68
- alkalaemia 394
- alkalosis
 - metabolic 393, 396
 - respiratory 393–395
- allodynia 399
- allotriophagia 78, 218
- alpha2 agonists 46, 167, 407
- amantadine 68, 407
 - dosages 70
- AMBU bag 371
- anaesthesia
 - in alpacas 245
 - in cats 178
 - in cattle 233
 - in chinchillas 197
 - in degus 197
 - in dogs 168
 - in donkeys 219
 - in ferrets 203
 - in guinea pig 197
 - in horses 219
 - in llamas 245
 - in pig 251
 - in rabbits 188
 - in small rodents 210
 - small ruminants 239
- anaesthesia chamber 21
- anaesthesia machine
 - absorbent 28, 375
 - APL valve 29
 - apparatus dead space 26
 - Bain system 22–23
 - carrier gas 36
 - check 36
 - coaxial system 22, 26
 - demand valve 342
 - desflurane vaporiser 35
 - exhaust hose 29
 - flowmeter 24, 30, 36
 - high-pressure system 31
 - leak check 38
 - low pressure system 33
 - machine part 30
 - Mapleson D system 22
 - medium pressure system 32
 - non-rebreathing system 22,
265, 375
 - one-way valves 26
 - oxygen concentrator 32
 - oxygen (O₂) flush 32
 - oxygen source 30–31
 - patient part 21
 - pop-off valve 29
 - precision vaporisers 33
 - rebreathing system/circle
system 23, 29
 - semi-closed system 23
 - suction 29
 - universal vaporisers 33
 - valve disks 27
 - Y-piece 26
- anaesthesia stages 60
- anaesthetic agents, cardio-
vascular effects 280
- anaesthetic drugs
 - affinity to the receptor 64
 - dosing 63
 - effect 64
 - potency 64
- anal reflex 42
- analgesia 404
 - dog 331
 - dog and cat 407
 - ferret 209
 - guinea pig 202
 - horse 224, 226, 342, 411
 - modulation 469
 - multimodal 405
 - physical therapy 469
 - pig 259
 - small mammals 409
 - small rodents 218
- antibiotics 166
 - prophylactic administra-
tion 166
- anticonvulsant agents 305
 - epileptiform seizures 309
 - gabapentin 97
- antiemetics 65
- antitussives 79, 130
- anuria 319
- apneustic breathing
pattern 106
- apnoea 369
 - small rodents 211

- appetite stimulation 122
 - arousal, dexmedetomidin 88
 - arrest rhythms 477
 - arrhythmia 354
 - hypertrophic cardiomyopathy 295
 - arteria
 - auricularis, pig 253
 - facialis, horse 222
 - facialis transversalis, horse 222
 - metatarsalis dorsalis, horse 222
 - asphyxia 62
 - aspiration 335, 396
 - small rodents 210
 - aspiration protection 301
 - Aspir-Guard 302
 - atipamezole 70
 - antagonization medetomidin 111
 - antagonization dexmedetomidine 86
 - antagonization romifidine 135
 - antagonization xylazine 145
 - dosages 71
 - atrial fibrillation 365
 - atrial flutter 365
 - atropine 72, 93, 124
 - bradycardia 353
 - cardiopulmonary resuscitation (CPR) 476
 - cattle 237
 - dosages 73
 - guinea pig 200
 - horse 72, 224
 - rabbits 73
 - atropine esterases, rabbit 191
 - autoregulated organs 308
 - AV block 357
 - azaperone 74
 - dosages 75
 - pig 256
- B**
- bacteraemia 300
 - barbiturates 304
 - euthanasia 482, 484
 - horse 225
 - liver patients 323
 - pentobarbital 127
 - base excess 393
 - bathmotropy 279
 - bedinvetmab 407
 - benzodiazepine
 - diazepam 88
 - geriatric patient 268
 - midazolam 121
 - paediatric patient 264
 - benzyl alcohol 132
 - bicarbonate (HCO_3^-) 388, 392
 - bifid waveform 295
 - bigeminy 284, 362
 - bleeding prophylaxis, liver patients 322
 - blood gas analysis (BGA) 378, 394
 - blood glucose measurement 335
 - blood pressure 41, 47, 308
 - blood pressure measurement 47
 - direct 51
 - Doppler sonography 49
 - invasively 51
 - non-invasively 48
 - oscillometric method 48
 - Riva-Rocci principle 48
 - blood transfusion, ferret 205
 - blood volume 169
 - cat 178
 - cattle 235, 240
 - ferret 203
 - guinea pig 198
 - hamster 211
 - horse 221
 - mouse 211
 - pig 252
 - rabbit 189
 - rat 211
 - South American camelids 246
 - Boxer, acepromazine sensitivity 171
 - brachycephalic breeds 156, 158, 160, 167
 - brachycephalic syndrome 152, 162, 171, 181
 - breathing 39
 - bag 27–28
 - depth 39
 - hoses 26
 - mask 161
 - respiratory effort 39
 - respiratory rate 39
 - sounds 39
 - system 21
 - type 40
 - work 40
 - bupivacaine 76, 417
 - analgesia 410
 - dosages 77
 - epidural anaesthesia 439, 455
 - small animals 417
 - treatment overdose 76
 - buprenorphine 64, 77, 406
 - affinity to μ receptor 77
 - analgesia 410
 - cardiovascular effects 280
 - dosages 78
 - oral transmucosal administration 78
 - Pica behaviour 78
 - butorphanol 79, 173
 - cardiovascular effects 280
 - cat 185
 - dog 174, 327
 - dosages 80
 - epileptic seizures dog/cat 305
 - ferret 207
 - foal 346
 - geriatric patient 269
 - gravid patient 274
 - guinea pig 200
 - hamster 216
 - horse 224, 226
 - liver patients 324
 - mouse 215
 - pig 257
 - rabbit 193
 - rat 214
 - small rodents 213
 - South American camelids 250
 - traumatic brain injury 311

C

- Caesarean section 120, 271
 capillary refill time 41
 capnography 55, 158
 – abnormal waveforms 375
 – normal waveform 56
 carbon dioxide (CO₂) 370
 – inspiratory 375
 – partial pressure 46, 393
 – rebreathing 156
 Carboxyhaemoglobin (COHb) 46
 cardiac disease 278
 – dog 170
 cardiogenic oscillation 375
 cardiovascular system 60, 262, 267, 271, 350
 – cardiovascular failure 350
 carnitine 279
 carprofen 81, 406
 – analgesia 410
 – dosages 82
 – Labrador Retrievers 82
 – liver patients 324
 ceiling effect (saturation effect) 80
 central venous pressure (CVP) 318
 cerebral oedema 309
 cerebral perfusion pressure (CPP) 308
 chronotropy 279
 cimicoxib 82, 406
 – dosages 83
 – interactions 83
 circle system
 – closed 24
 – components 25
 – semi-closed 23
 circulation 41
 CO₂ rebreathing 375
 colic, horse 129, 225, 228, 230, 336
 – Viennese double-drip 340
 colloidal solution (HES) 337
 complication, hyperthermia 384
 complications 152, 350
 – cardiac disease 285, 287, 289, 295
 – cardiopulmonary resuscitation (CPR) 474
 – cat 159, 178
 – cattle 234
 – colic, horse 341
 – dog 168
 – epidural anaesthesia 434
 – ferret 203
 – foal 347
 – gastric dilatation-volvulus 330
 – geriatric patient 269
 – guinea pig 198
 – horse 229
 – kidney patients 318
 – liver patients 325
 – local analgesia 429
 – myelomalacia, coldblooded horses 222
 – neonatal patient 265
 – oculo-cardiac reflex 298
 – pig 252
 – rabbit 188
 – small rodents 210
 – small ruminants 240
 – South American camelids 245
 – traumatic brain injury 313
 compound A 139
 corneal protection 167
 corneal reflex 42
 cortisol 92
 COX2 inhibitors 81–82
 COX-2-selective drugs 406
 cranium
 – intracranial pressure (ICP) 308
 – intracranial space 307
 crias 246
 cryotherapy 469
 curare cleft 377
 Cushing's triad 308
- D**
- dantrolene 255
 dead space ventilation 374
 defibrillation 367
 dehorming
 – cattle 457
 – goat 458
 dehydration 163
 detomidine 84, 167
 – dosages 85
 – horse 226, 232, 412
 Devon Rex cat, myopathy 182
 dexmedetomidine 86, 167, 407
 – cardiovascular effects 280
 – dosages 87
 – local anaesthetic effect 87
 diabetes mellitus 112, 135, 145, 333
 diazepam
 – cardiovascular effects 280
 – cat 185, 293
 – dog 175, 283, 328
 – dosages 90
 – epileptic seizures dog/cat 305
 – ferret 207
 – foal 346
 – geriatric patient 268
 – horse 225, 227, 339
 – liver patients 323
 – paediatric patient 264
 – pig 258
 – traumatic brain injury 310–311
 differential blockade 137
 digoxin, dilated cardiomyopathy 285
 dilated cardiomyopathy (DCM) 112
 – cat 279
 – dog 170, 279
 – ferret 206
 diltiazem, hypertrophic cardiomyopathy 295
 dissociative anaesthetic 105
 diuresis 112, 136, 146
 dobutamine
 – colic horse 341
 – dilated cardiomyopathy 285
 – hypotension 353
 – kidney patients 318
 donut sign 430

dopamine
 – hypotension 353
 – kidney patients 318
 – liver patients 325
 double drip, horse 228, 230
 doxapram, hypoventilation 371
 dromotropy 279
 drug metabolism, cat 179
 drugs
 – anaesthetic 63
 – hepatotoxic 324
 – nephrotoxic 316–317
 dulla, camel 246
 dynamic left ventricular outflow tract obstruction (DLVOTO), cat 291

E

electrocardiogram (ECG) 53, 477
 – arrhythmias 354
 – artefacts 55
 – colour codes 54
 – electrodes 53
 electrocardiography 44
 electrolytes 386
 – kidney patients 315
 – liver patients 322
 EMLA cream 189, 222, 247, 414
 endotoxaemia 337
 endotracheal tube (ETT) 154
 – armoured tubes 155
 – cat 153
 – cuff 159
 – intubation 153
 – low pressure cuff 153
 – mortality 153
 – PVC 153
 – red rubber 155
 – shortening 156
 – silicone 154
 – size 156
 – tracheostomy 155
 – without cuff 155
 enflurane, liver patients 324
 enucleation
 – retrobulbar block, cattle 460

– retrobulbar block, horse 298, 451
 – retrobulbar block, small animal 424
 ephedrine
 – colic horse 341
 – hypotension 353
 epidural anaesthesia 137
 – caudal, cattle 466
 – caudal, horse 453
 – drugs 439, 454
 – hanging drop technique 439
 – loss of resistance 439
 – lumbosacral, cattle 466
 – methadone 121
 – small animals 434
 epidural analgesia 275
 epilepsy 122
 equine metabolic syndrome 333
 escape rhythm 364–365
 Esmarch's tourniquet 464
 esmolol
 – dilated cardiomyopathy 285
 – hypertrophic cardiomyopathy 295
 etomidate 91
 – cardiovascular effects 280
 – cat 186
 – dog 176
 – dosages 92
 – kidney patients 317
 euthanasia 480
 excitation stage 60
 Extraperiorbital Fat Body Insertion (EFBI) 445

F

fasting
 – cat 178
 – cattle 235
 – dog 169
 – ferret 203
 – guinea pig 198
 – horse 220
 – pig 252
 – rabbit 189
 – small rodents 211
 – small ruminants 240

– South American camelids 246
 Feline orofacial pain syndrome (FOPS) 183
 fentanyl 92, 214, 406
 – cardiovascular effects 280
 – cat 294
 – dog 284, 328
 – dosages 94
 – guinea pig 201
 – hamster 216
 – kidney patients 318
 – mouse 215
 – patch 94
 – patch, dosages 95
 – rabbit 195
 – spot-on solution 94
 – traumatic brain injury 310
 fentanyl-ketamine continuous rate infusion (FK) 409
 fever 384
 field anaesthesia
 – alpaca 250
 – horse 230
 – pig 260
 flail chest 40
 flumazenil 88, 95
 – antagonization midazolam 121
 – epileptic seizures dog/cat 306
 – ferret 207
 – pig 257
 – small rodents 217
 fracture, postoperative, horse 229
 free water 164
 frunvetmab 407
 furosemide
 – dilated cardiomyopathy 285
 – hypoxaemia 295, 313
 – traumatic brain injury 309

G

gabapentin 69, 97–98, 304, 307, 407, 409
 – cat 184
 – cats 98

- dosages 98
- withdrawal symptoms 98
- gastric decompression 327
- gastric dilatation-volvulus 326
 - ventricular tachycardia 362
- gastric torsion 175
- general weakness, horse 229
- geriatric patient 300
- glycopyrrolate 93, 99, 124
 - bradycardia 353
 - dosages 100
 - guinea pig 200
- grapiprant 100, 406
 - dosages 101
- gravid patient 271
- greenhouse effect 103, 139
- guaifenesin, horse 225, 227

H

- H2 blockers 171
- haematocrit, gravid patient 272
- halothane, liver patients 324
- heart
 - cardiac massage 472
 - cardiac pump 472
- heat therapy 469
- Heinz bodies 67, 183
- hepato-encephalic syndrome 322
- herding dogs, MDR1-gene-mutation 172
- histamine release 124, 130
- hydration balance, evaluation 163
- hydroxyethyl starch (HES) 165
- hyperadrenocorticism, ferret 205
- hyperalgesia 399
- hypercapnia 57, 370
- hyperglycaemia 136, 146, 334
- hyperkalaemia 367, 387
 - causes 387
 - ECG changes 387
 - therapy 388
- hypermetabolic syndrome, pig 255
- hypernatraemia 390
 - causes 390
- hypersensitivity 399
- hypertension 352
 - traumatic brain injury 313
- hyperthermia 173, 384
 - malignant 57, 102, 139, 384
 - malignant, pig 255
- hypertonic saline 337
- hypertrophic cardiomyopathy (HCM) 182
 - cat 182, 290
- hyperventilation 57, 373
 - capnography 375
 - cardiopulmonary resuscitation (CPR) 474
- hypoalbuminemia 322
- hypocapnia 57, 374
- hypoglycaemia 322
- hypokalaemia 388
 - causes 389
 - therapy, substitution 389
- hyponatraemia 391
 - causes 391
 - myelinolysis 391
 - therapy 391
- hypoperfusion, acid-base balance 395
- hypoproteinaemia 63
- hypotension 41, 350
 - colic, horse 341
 - dilated cardiomyopathy 285
 - foal 347
 - gastric volvulus-dilatation 330
 - hypertrophic cardiomyopathy 295
 - kidney patients 318
 - liver patients 325
 - persistent ductus arteriosus (PDA) 289
 - traumatic brain injury 313
- hypothermia 382
- hypoventilation 369
 - acid-base balance 395
 - capnography 375
 - colic, horse 341
 - gastric volvulus-dilatation 330
 - hypercapnia 57
 - manual positive pressure ventilation 371

- persistent ductus arteriosus (PDA) 289
- Hypoventilation, manual positive pressure ventilation 372
- hypoxaemia 45, 378
 - cardiomyopathy, hypertrophic 295
 - clinical indications 378
 - dilated cardiomyopathy 285
 - gastric volvulus-dilatation 331
 - kidney patients 318
 - liver patients 325
 - pulse oximetry 46
 - reasons 379
- hypoxia 338, 378

I

- imidazole derivatives 135, 145
- infusion therapy 163
 - cardiopulmonary resuscitation (CPR) 478
 - colic, horse 337
 - colloid solution 478
 - colloid solutions 165
 - crystalloid solution 163, 478
 - glucose 5% 164
 - glucose, diabetes mellitus 334
 - hyperosmotic solutions 309
 - infusion rates 164–165
 - NaCl 0.9% 164
 - rabbit mix 196
 - Ringer's lactate solution 164
 - shock patients 478
- inhalation anaesthetics
 - desflurane 35
 - enflurane 324
 - environmental hazards 21
 - halothane 324
 - isoflurane 102
 - pig 255
 - sevoflurane 138
- injuries, postoperative, horse 229
- inodilators, dilated cardiomyopathy 285

inotropy 279
 inspiratory fraction of oxygen (F_IO₂) 378
 insulin therapy, diabetes mellitus 334
 insulinoma, ferret 205
 intermittent positive pressure ventilation (IPPV) 370, 472
 intraarterial access
 – horse 222
 – pig 253
 intraocular pressure (IOP) 297
 intravenous regional anaesthesia (IVRA) 461
 – cattle 462
 intubation
 – brachycephalic dogs 156
 – cat 180
 – cattle 236
 – check 157
 – dog 170
 – donkey 224
 – equipment 153, 157
 – ferret 204
 – foal, nasotracheal 345
 – guinea pig 199
 – horse 222
 – pig 253
 – rabbit 190
 – sighthound breeds 156
 – small rodents 213
 – small ruminants 241
 – South American camelids 248
 invasive blood pressure measurement 340
 – arterial access 52
 – incorrect measurement 53
 – indications 52
 – transducer 52
 – zeroing 52
 isoflurane 63, 102
 – cardiovascular effects 280
 – cat 294
 – colic, horse 340
 – dog 104, 284
 – foal 347
 – kidney patients 318
 – liver patients 325
 – MAC 383

– precision vaporiser 35
 – rabbit 196
 – small ruminants 244
 – traumatic brain injury 312

J

jaw tone 42
 juvenile stages 262

K

ketamine 105
 – cardiovascular effects 280
 – cat 186
 – cattle 238
 – colic, horse 339
 – continuous rate infusion 107
 – dog 175–176, 282
 – dosages 107
 – epidural anaesthesia 440, 455
 – ferret 207
 – foal 347
 – gastric dilatation-volvulus, dog 328
 – guinea pig 201
 – hamster 216
 – horse 225, 227, 231, 411
 – liver patients 323
 – mouse 215
 – pain management 407
 – pedigree cats 108
 – pig 257
 – pure-breed cats 182
 – rabbit 195
 – rat 214
 – S-ketamine 108
 – small ruminants 244
 – South American camelids 250
 ketoprofen 406

L

laryngeal mask airway 160, 191, 258
 laryngeal spasm 157, 248
 – cat 180
 – ferret 204
 – small ruminants 241
 laryngoscope 157
 levomethadone 119
 lidocaine 108, 417
 – addition of adrenaline 108
 – analgesia 410
 – calculation CRI dose 332
 – cardiopulmonary resuscitation (CPR) 476
 – cat 180
 – dosages 110
 – epidural anaesthesia 439, 454
 – ferret 204
 – gastric dilatation-volvulus, dog 327, 329
 – gel 414
 – horse 411
 – intubation 157
 – small animals 417
 – ventricular tachycardia 477
 liver metabolism 323
 liver problems 320
 local anaesthesia 413
 – advantages, disadvantages 415
 – auriculopalpebral nerve, cattle 461
 – effects 413
 – enucleation, cattle 460
 – enucleation, small animal 424
 – eye procedures, horse 449
 – eyelids, horse 450
 – femoral nerve, small animal 428
 – head, horse 442
 – head, ruminant 457
 – head, small animal 418
 – incision line 275
 – inferior alveolar nerve, horse 447
 – inferior alveolar nerve, small animal 422
 – infraorbital nerve, horse 442
 – infraorbital nerve, small animal 418

- infratrochlear nerve, goat 458
 - intercostal block 432
 - intraarticular administration, small animal 425
 - knee joint 429
 - limbs, small animal 425
 - maxillary nerve, horse 445
 - maxillary nerve, small animal 420
 - mental nerve, horse 446
 - mental nerve, small animal 421
 - mental nerve XL, horse 447
 - modes of application 413
 - neuropathy 430
 - oxybuprocaine 299
 - peribulbar block 424
 - retrobulbar block 424
 - ring block 426
 - sciatic nerve, small animal 429
 - spermatic cord, small animal 440
 - ultrasound-guided 430
 - zygomatic nerve, cattle 457
 - zygomaticotemporal nerve, goat 458
 - local anaesthesia techniques 464
 - local anaesthetics 406
 - amide type 76, 108
 - bupivacaine 76
 - cat, toxic side effects 417
 - epidural anaesthesia 439
 - lidocaine 108
 - onset, duration of action 417
 - overdose 416
 - ropivacaine 137
 - without vasoconstriction 414, 463
 - local analgesia
 - auriculopalpebral, horse 449
 - BIER 461
 - inferior alveolar nerve, horse 447
 - infraorbital nerve, horse 442
 - infratrochlear nerve, horse 451
 - inverted L, cattle 465
 - lacrimal nerve, horse 451
 - line, cattle 464
 - maxillary nerve, horse 445
 - mental nerve, horse 446
 - mental nerve XL, horse 447
 - Peterson 451, 460
 - retrobulbar 424, 460
 - retrobulbar, horse 451
 - ring 459
 - supraorbital nerve, horse 451
 - testicular, horse 455
 - zygomatic nerve, horse 451
 - low dead space volume 24
 - low-flow anaesthesia 24–25
 - L-Polamivet 119
 - lubricant 157
 - lung injury, ventilation-induced 373
 - lusitropy 279
- ## M
- MAC value 104, 187, 265, 269
 - isoflurane 103, 225
 - reduction 145
 - sevoflurane 140
 - maintenance fluid requirement 165
 - mannitol, traumatic brain injury 309
 - manometer 25, 159
 - Manometer 27
 - manual ventilation 372
 - maropitant 172
 - mask induction 139, 177
 - cat 187
 - rabbit 196
 - MDR1-gene mutation 172
 - mean arterial blood pressure (MAP) 308, 350
 - medetomidine 111, 167, 407
 - cardiovascular effects 280
 - cat 185, 293, 305
 - dog 174, 305
 - dosages 113
 - epidural anaesthesia 440
 - ferret 207
 - guinea pig 200
 - hamster 216
 - liver patients 323
 - mouse 215
 - pig 257
 - rabbit 193
 - rat 214
 - small rodents 213
 - South American camelids 249
 - meloxicam 114, 406
 - analgesia 410
 - concentrations 116
 - dosages 116
 - pig 259
 - meperidine, pethidine 129
 - mepivacaine 417
 - metamizole 117, 406
 - analgesia 410
 - dosages 119
 - guinea pig 202
 - kidney patients 318
 - methadone 119, 406
 - cardiovascular effects 280
 - dog 174, 327, 329
 - dosages 121
 - epidural anaesthesia 440, 455
 - geriatric patient 269
 - horse 226, 339
 - liver patients 324
 - traumatic brain injury 310
 - methadone-lidocaine-ketamine continuous rate infusion (MLK) 330, 408
 - metoclopramide 172
 - midazolam 121
 - cardiovascular effects 280
 - cat 185
 - dog 175, 282, 328
 - dosages 123
 - epileptic seizures dog/cat 305
 - ferret 207
 - foal 121, 346–347
 - geriatric patient 268–269
 - guinea pig 200
 - hamster 216
 - horse 227, 339

- liver patients 323
- mouse 215
- paediatric patient 264
- pig 256, 258
- rabbit 193, 195
- rat 214
- traumatic brain injury 310
- milrinone, dilated cardiomyopathy 285
- minute ventilation 23
- mitral valve insufficiency 112, 267, 281
- dog 170, 285–286
- MLK (mixture lidocaine and ketamine) 121
- MMA syndrome 117
- monitoring 39, 152
- apparatus 43
- bulb position 43
- muscle tone 42
- non-apparatus 39
- perfusion parameters 41
- pulse 40
- reflexes 42
- respiration 39
- response to stimuli 42
- morphine 123, 406
- analgesia 412
- cardiovascular effects 280
- dog 327
- dosages 125
- epidural anaesthesia 440, 455
- histamine release 323
- horse 225–226, 339
- liver patients 323
- morphine-lidocaine-ketamine continuous rate infusion (MLK) 412
- mouth gags 152
- mucous membrane colour 41
- muscle relaxants 42
- central 121
- peripheral, intervention eye 299
- rocuronium 299
- myelomalacia, horse 222
- myocardial perfusion 292
- myopathy 181–182
- horse 220, 229

N

- naloxone 125, 274
- antagonization fentanyl 92
- antagonization pethidine 129
- antagonization remifentanyl 133
- dosages 126
- small rodents 217
- neonatal/newborn animal 262
- nerve stimulator 427, 430, 432
- neuroleptics 64, 74
- neuropathy
- horse 220
- positioning 152
- Nicoladoni-Branham sign 289
- nitrogen (N) 24
- nitrous oxide 239
- non-invasive blood pressure measurement
- incorrect measurement 48
- measuring interval 50
- non-steroidal anti-inflammatory drugs (NSAID) 406
- carprofen 81
- cimicoxib 82
- meloxicam 114
- noradrenalin, hypotension 353
- norepinephrine, colic horse 341
- norketamine 106
- normal values
- acid-base balance 393
- cat 179
- cattle 235
- core body temperature 58
- dog 169
- ferret 204
- guinea pig 199
- horse 221
- partial pressure CO₂ 57
- partial pressure O₂ 45
- pig 252
- pulse rate 40
- rabbit 189
- respiratory rate 40
- small rodents 211
- small ruminants 241
- sodium and potassium 386
- South American camelids 246
- normal values glucose 335
- normocapnia 57
- traumatic brain injury 309
- normoglycaemia, traumatic brain injury 309
- normotension
- colic, horse 338
- foal 344
- kidney patients 315
- liver patients 322
- traumatic brain injury 308
- normothermia
- colic, horse 338
- definition 58
- foal 345
- kidney patients 316
- liver patients 322
- traumatic brain injury 309
- normoventilation 57
- normovolaemia, traumatic brain injury 309
- normoxaemia 45

O

- oesophageal stethoscope 43
- oliguria 319
- omeprazole 172
- one-lung ventilation 158
- opioids 172, 406
- buprenorphine 77
- butorphanol 79
- cat 186
- fentanyl 92
- horse 224, 226
- methadone 119
- morphine 123
- naloxone 125
- pig 255
- remifentanyl 133
- tramadol 142
- opisthotonos 132
- oscillometric method 48
- incorrect values, causes 48
- oxygen (O₂)
- content (blood) 47
- content in the cylinder (calculation) 31

- intoxication 381
 - oxyhaemoglobin dissociation curve 45
 - requirement 24
 - saturation 44
- P**
- P50 value 46, 247
- paediatric patient 262–263, 343
- pain
- central sensitisation 399
 - effects 400
 - emergency patient 405
 - general signs of 400
 - ladder (WHO) 405
 - neuropathic 399, 407
 - nociceptive 399
 - peri- and postoperative 404
 - scales 400
- pain therapy 405
- Palatine Bone Insertion (PBI) 445
- palpebral reflex 42
- panting 374
- paracetamol, liver patients 324
- parasympatholytics 72
- atropine 72
 - glykopyrrolat 99
- pentobarbital 127, 482
- dosages 128
 - epileptic seizures dog/cat 306
- perfusion 41
- perioperative management 152
- geriatric patient 267
 - gravid patient 272
 - paediatric patient 263
- peripheral muscle relaxants, pig 258
- permanent oestrus, ferret 205
- persistent ductus arteriosus (PDA) 171
- dog 287, 344
 - Nicoladoni-Branham sign 289
- Peterson block 451
- pethidine 129, 406
- dosages 130
- phenobarbital, epileptic seizures dog/cat 306
- phenothiazine 64
- phenylephrine 348
- colic, horse 342
 - horse 229
 - hypotension 353
- pimobendan, dilated cardiomyopathy 285
- piprant 100
- polycystic kidney disease, cat 182
- polyneuropathy 335
- porcine stress syndrome 255
- portosystemic shunt (PSS) 321
- positive pressure ventilation
- manual 371
 - mechanical 372
- post-arrest rhythms 477
- postobstructive diuresis 319
- postoperative feeding, rabbit 197
- potassium (K) 386
- preanaesthetic considerations
- cat 178
 - cattle 233
 - dog 168
 - ferret 203
 - horse 219
 - pig 251
 - rabbit 188, 198
 - small rodents 210
 - small ruminants 240
 - South American camelids 245
- preanaesthetic examination 150
- age 151
 - aggressive animal 151
 - ASA classification 150
 - complications 152
- pregnancy 271
- preload 278
- premature ventricular extrasystoles (VES) 331, 341, 360, 365
- preoxygenation 132, 161
- procaine 417
- proparacaine 417
- propofol 131
- cardiovascular effects 280
 - cat 183, 186
 - dilated cardiomyopathy 283
 - dog 328
 - dosages 133
 - epileptic seizures dog/cat 305
 - ferret 208
 - foal 347
 - gravid patient 275
 - horse 227
 - hypertrophic cardiomyopathy 294
 - kidney patients 317
 - liver patients 324
 - pig 258
 - rabbit 195
 - small ruminants 244
 - South American camelids 250
 - traumatic brain injury 311
- propovet 132
- propylene glycol 88–89, 91
- pulmonary oedema, sheep 243
- pulmonic stenosis 171
- pulse 39–40, 44–45, 47, 230, 260, 272, 276, 278, 284, 290, 295, 318, 343, 348, 363, 369, 378, 381, 474, 477
- deficit 41, 360
 - monitoring 40
 - peripheral 41
- pulse oximetry 44
- inaccurate measurement, causes 46
- pupillary reflex 42
- pyrazolone derivative 117

R

- rebound effect 126
- rebreathing, capnography 29
- reflexes 42

 - interdigital pinch 218
 - interphalangeal 213
 - oculo-cardiac 297, 300–301
 - righting 218

- reflux 396

- during anaesthesia, therapy 397
- regurgitation 396
 - during anaesthesia, therapy 397
 - ferret 203
 - small ruminants 240
 - South American camelids 245
- rehydration, colic, horse 337
- remifentanyl 133
 - dosages 134
 - liver patients 324
- renal problems 314
- requirements for anaesthesia 20
- respiration, complications 369
- respiratory acidosis 370
- respiratory alkalosis 374
- resuscitation, cardiopulmonary (CPR) 471
 - complications 474
 - cycle 474
 - emergency drugs 476
 - evaluation 474
 - fluids 478
 - hyperventilation 474
 - open cardiac massage 475
- romifidine 135, 167, 407
 - dosages 136
 - horse 226, 231
- ropivacaine 137, 417
 - differential blockade 137
 - dosages 138
 - small animals 417

S

- Schimmelbusch mask 21
- sedation
 - cat 184
 - cattle 237
 - dog 174
 - ferret 206
 - geriatric patient 268
 - gravid patient 274
 - guinea pig 200
 - horse 226
 - mare 344
 - paediatric patient 264
- pig 256
- rabbit 193
- small rodents 213
- small ruminants 243
- South American camelids 249
- sepsis 165
- sevoflurane 138
 - cardiovascular effects 280
 - cat 294
 - dog 177, 284
 - foal 347
 - kidney patients 318
 - liver patients 325
 - pig 259
 - precision vaporiser 35
 - small ruminants 244
 - South American camelids 250
 - traumatic brain injury 311–312
- shivering 130
- sick sinus syndrome 170, 364
- sighthound breeds
 - intubation 156
 - thiopental 141
- thiopental sensitivity 172
- sinus arrest 363
- sinus arrhythmia 354
- sinus bradycardia 355
- sinus tachycardia 356
- soda lime 28
- sodium
 - hypernatraemia 390
 - hyponatraemia 391
- sodium (Na) 390
 - deficit 392
- spasmolysis 129
- splash block 275
- standing sedation, horse 231
- steroid anaesthetics 67
- storage, horse 221
- stresnil 74
- sudden death
 - dilated cardiomyopathy 285
 - hypertrophic cardiomyopathy 295
 - traumatic brain injury 313
- systolic anterior motion (SAM), cat 291

T

- T61 482
- taurine 279
- temperature 382
- temperature management
 - active 383
 - passive 383
- temperature measurement 44, 58
 - incorrect values 58
- tetanus 122
- tetracaine 417
- thiopental 140, 172, 176, 225
 - cardiovascular effects 280
 - cattle 237
 - dog 176, 284
 - dosages 142
 - epileptic seizures dog/cat 305
 - sighthound breeds 141
 - traumatic brain injury 311
 - ventricular bigemini 141
- thoracic pump 473
- thrombophlebitis 127
- tidal volume 23
- tiletamine, pig 258
- toe pinch reflex 42
- TOF-guard 299
- tolazoline, antagonization xylazine 145
- total intravenous anaesthesia (TIVA) 312
- tramadol 142
 - dosages 144
- traumatic brain injury 310
- Trendelenburg position 273–274, 309, 341
- triple drip, horse 228
- tying up syndrome 229
- tympany
 - cattle 234, 239
 - small ruminants 240
 - South American camelids 245

U

- urinary bladder, emptying 167, 341, 348

V

- vaporiser 33
 - in-circuit 33
 - out-of-circuit 33
- vein access
 - cat 180
 - cattle 235
 - dog 169
 - ferret 203
 - guinea pig 198
 - horse 221
 - pig 253
 - rabbit 189
 - small rodents 212
 - small ruminants 241
 - south american camel-ids 247
- vena auricularis lateralis
 - cattle 235
 - horse 221
 - pig 253
 - rabbit 189
 - small ruminants 241
 - South American camel-ids 247
- vena caudalis mediana, small rodents 212
- vena cephalica antebrachii
 - cat 180
 - dog 169
 - ferret 203
 - guinea pig 199
 - pig 253
 - rabbit 190
 - small rodents 212
- vena digitalis dorsalis communis III, cattle 462

- vena jugularis
 - cat 180
 - cattle 235
 - dog 169
 - ferret 204
 - horse 221
 - small rodents 213
 - small ruminants 241
 - South American camel-ids 248
- vena saphena lateralis
 - cat 180
 - dog 169
 - ferret 204
 - rabbit 190
- vena saphena medialis, cat 180
- ventilation
 - lung protective 373
 - manual 27
 - mechanical 27
 - minute 373
 - pressure-controlled (PCV) 372
 - volume-controlled (VCV) 372
- ventilator 27
- ventricular fibrillation 366
 - emergency drugs 477
- ventricular tachycardia 362
 - emergency drugs 477
- visceral analgesia 79
- volaemic status 163
- Von Willebrand factor deficit 115

W

- water deficit 390–391
- Wenckebach periodicity 358
- wound healing disorder
 - bupivacaine 76
 - diabetes mellitus 336

X

- xylazine 145, 167, 407
 - cardiovascular effects 280
 - cattle 236–237
 - dog 176
 - dosages 147
 - epidural anaesthesia 455
 - ferret 207
 - field anaesthesia 250
 - foal 346, 348
 - horse 225–226, 339
 - liver patients 323
 - rabbit 195
 - sensibility sheep 146
 - sheep 242
 - small ruminants 243
 - South American camel-ids 147, 249

Y

- yohimbine, antagonization xylazine 145

Z

- zolazepam, pig 258