

Index

- abortion, previous 11–12
- academic infrastructure 313–14
- acidosis, neonatal 227
 - hypoxia 270–1
 - metabolic 277
- actin 28
- activating transcription factor family (ATF) 93–4
- activator protein 1(AP-1) 94–5
 - NF- κ B cross-coupling 95
- cyclic adenosine monophosphate (cAMP) 30
 - signalling 93–4
- cyclic adenosine monophosphate response element-binding protein (CREB) 85–6, 93–4
- cyclic adenosine monophosphate response elements (CRE) 85–6
- adolescence
 - outcomes 127
 - respiratory symptoms 122–3
- adrenal insufficiency, steroid therapy 203
- adrenaline
 - dosing regimes 270
 - hypotension 277
 - mode of administration 270
 - neonatal resuscitation 270
- β -adrenergic agents 223–4
 - anaesthesia in preterm labour 250–1
 - see also β sympathomimetics
- β 2-adrenergic receptor agonists 160
- adrenergic receptors 30
- adult respiratory distress syndrome (ARDS) 243–4
- adults, outcomes 127
- advance authorisations 324–5
- age
 - at death 112–13
 - see also gestational age
- airway, resuscitation 265–6
- albumin, serum levels 283
- alcohol abuse 16
 - social deprivation 156
- alcohol consumption 15, 16
- alpha fetoprotein (AFP), maternal serum 145–6
- ambulatory monitoring, maternal 319
- amnio drainage 217
- amniocentesis, materno-fetal infection diagnosis 172–3
- amnioinfusion 183
- amnion 48–9, 49–50
 - prostaglandin source 84
- amniopatch 183
- amniotic fluid
 - culture 172–3
 - positive 8–9, 173
 - proinflammatory cytokines in infections 144
 - volume 177–8
- anaemia of prematurity 280
 - risk factors 280
- anaesthesia
 - Caesarean section 245
 - corticosteroid use 249
 - fetal heart rate 237
 - fetal monitoring 237
 - general 235
 - avoidance 256
 - cardiovascular changes 242
 - pre-eclampsia 245
 - ideal 254–7
 - inevitable delivery 248–9, 253
 - local 238–9
 - miscarriage risk 237
 - planned preterm delivery 239–48
 - premature delivery risk 237
 - preterm labour 249–52

398 Index

- anaesthesia (cont.)
 - provision 252–7
 - regional 239
 - Caesarean section 245
 - choice 256
 - hypotension 251
 - restrictive lung disease 246–7
 - risks 235
 - surgery during pregnancy 239
 - tocolysis 249–52
- anaesthetic management 236
 - liaison with team 240
- anaesthetists 235, 239
 - expertise 242
 - planned preterm delivery 240
 - preterm delivery risk factors 248
- analgesic management 236
 - ideal 254–7
 - incidental effects 371–2
 - patient-controlled analgesia 238–9
 - provision 252–7
 - spinal analgesia 242
 - timing 253
 - see also* epidural analgesia
- anandamide (ANAN) 156
- anhydramnios 194
- annexins 79
- antenatal care 17–18, 154–5
- antepartum haemorrhage 159
- antibiotics
 - hazards of use 181
 - as medical treatment 384
 - neonatal infections 286
 - pPROM 180–1, 204
 - preterm labour prevention 56, 204
 - prophylactic 164
 - pPROM 180–1
- anticoagulation, maternal 246
- antiphospholipid syndrome 17
- antiprogesterones 45–6
 - labour onset 53–4
- anxiety, maternal 237, 239
- anxiolytics 237
- apoptosis
 - cervical ripening 48
 - membrane rupture 51
- arachidonic acid 55–6, 77–8, 83
- arachidonoyl ethanolamine (AEA) 156
- Arthur case 369–70
- aspirin, anaesthetic implications 251
- assault 330
 - treatment as 380
- assisted reproduction 4–5, 12–13
 - multiple births 114
- asthma, maternal 246
- atosiban 160, 197–8
 - anaesthetic implications 252
 - multiple pregnancies 217
 - pre-eclampsia 223–4
- attention deficit hyperactivity disorder (ADHD) 124–5
- autism, retinopathy of prematurity 125–6
- autoregulation 289
- β sympathomimetics 182, 195–7
 - anaesthesia in preterm labour 250–1
 - contraindications 196–7
 - diabetes mellitus 196–7
 - medical emergencies 237
 - multiple pregnancies 217
 - pulmonary oedema 217
- Baby Alexandra case 373–4
- bacteraemia, fetal 173
- bacterial endotoxin 55–6, 79–80, 83
 - fetal exposure 182
- bacterial vaginosis 6–7
- bacteriuria 55–6
 - asymptomatic 9–10, 158
- bag and mask device 266
- bed occupancy 309–10
- bed rest, multiple pregnancies 212–13
- behavioural outcomes, school age children 123–6,
- benzodiazepines 237
- bereavement damages 353
- best interests of child 373–5, 377
 - rejection in Scotland 342–3
- betamethasone 182–3
 - lung maturation enhancement 183
 - maternal therapy 202–3
- birth
 - management 338–9
 - NHS Redress Scheme for injuries 358
 - wrongful 352
- birthweight 109
 - economics of low 318
 - outcome 110
 - see also* extremely low birthweight babies; very low birthweight babies

- Bland case* 369, 370–2
 - feeding 384
- bleeding, acute episodes in neonates 280
- blindness 117, 118–19, 121
- body weight
 - maternal 16
 - neonates 272, 277
 - monitoring 277
- Bolam test* 331, 347–8
- Bolitho case* 348
- Bowen, Jaimee (case) 378, 392
- brain, fetal
 - acquired disorders 287–90
 - development 288
 - postnatal steroids 274–5
 - injury 116, 122
 - perinatal 175–6
 - vulnerability 292
 - white matter 175–6, 183
 - sensitisation to hypoxia-ischaemia 184
 - white matter
 - injury 175–6, 183
 - vulnerability to injury 292
- brain, maternal
 - brain death 246
 - damage and intrauterine death in multiple pregnancy 216–17
- breathing, neonates
 - air versus oxygen 267
 - resuscitation 266–8
 - see also* ventilated babies, surfactant therapy; ventilation, mechanical
- breaths, rescue 266
- breech delivery 323–4
 - mode in preterm 205
- bronchopulmonary dysplasia *see* lung disease, chronic
- bupivacaine 255
- Caesarean section 5–6
 - anaesthesia 245
 - provision 253
 - combined surgical procedures 241
 - communication necessity 255–6
 - counselling 323–4
 - elective 205
 - IUGR 228
 - pre-eclampsia 225
 - hypoxic fetal stress avoidance 184–5
 - internal cardiac compression 245–6
 - intracranial trauma risk 254
 - IUGR 228
 - maternal hypertension 242–3
 - multiple births 218
 - diamniotic preterm first twin breech 220
 - diamniotic very low birth weight 219
 - higher order 220–1
 - limits of viability 221
 - placental abruption 216
 - refusal 338
 - viability limits 178–9
- caffeine intake 16–17
- calcitonin gene-related peptide (CGRP) 30
- calcium, uterine contractions 28–9
- calcium channel(s) 29
 - receptor-operated 32–3
- calcium channel blockers 160, 198–9
 - anaesthetic implications 252
 - multiple pregnancies 217
- calcium-calmodulin 28
- cannabis 156
- capnography 239
- carbon dioxide pneumoperitoneum 239
- cardiac arrest in pregnancy 245–6
- cardiac compression, internal 245–6
- cardiac disease, maternal 241–2
- cardiac transplantation 247–8
- cardiopulmonary resuscitation, maternal 245–6
- cardiotocography 227
 - contraction strength 191
 - erroneous interpretation 237
 - immature fetal cardiovascular physiology 204–5
- cardiovascular system, neonates 275–7
- cardioversion, direct current 245–6
- care
 - breach of 372
 - obligation for dying with dignity 388
 - see also* duty of care
- carotid artery, internal 288
- catecholamines, endogenous 237
- causation 348, 351–2
- C/EBP family 81
- C/EBP site on COX-2 gene 85–6
- cephalosporins 181
- cerebral arteries, pattern 288
- cerebral palsy 118, 175–6
 - causation 351
 - quadruplet risk 220–1
 - risk in monozygotic twins 291

400 Index

- cerebral palsy (cont.)
 - spastic 184
 - triplet risk 220–1
- cerebrovascular accidents, pre-eclampsia 223
- cervical cerclage 163–4, 183–4
 - emergency 201
 - multiple births 221
 - multiple pregnancies 211–12, 213
- cervical index 137
- cervical length 163–4
 - digital examination 136
 - fetal fibronectin combination 147
 - high-risk women 140
 - measurement 138
 - cost effectiveness 320
 - mid-trimester 138
 - multiple pregnancies 141, 211–12
 - predictive ability 139–42,
 - predictive value 146
 - threatened preterm labour 141
 - ultrasound imaging 163–4, 171–2, 193
- cervical os, internal
 - opening 171–2
 - ultrasound-identified dilatation 193
- cervical ripening 37–48
 - collagen structure 89–92
 - control 43–8
- cervical stitch retention 183–4
- cervical therapy 163–4
- cervix
 - appearance change 137–8
 - dilatation 171–2
 - funnel length/width 137
 - funnelling 137, 171–2, 211–12
 - incompetence 10
 - myometrial contractions 89–92
 - pregnancy 35, 39–42
 - relaxin in maturation 143–4
 - secretions 134–5
 - smooth muscle 39
 - structure 38–9
 - suprapubic pressure 137–8
 - transfundal pressure 137–8
 - ultrasound imaging 136–42
 - dilatation 171–2
 - transvaginal 159–60
- chest compressions 268
- child destruction offence 390–1
- childbearing, delayed 4
- children
 - competence 343–5
 - legal recognition 366, 389–90
 - terminally ill 375
- Chlamydia trachomatis* 7–8, 55–6
- chondroitin sulphate 38–9, 41
- chorioamnionitis 8–9, 174–5, 175–7
 - amniotic fluid volume 177–8
 - expectant management 179
 - multiple pregnancies 216, 221
 - periventricular leukomalacia 291–2
 - preterm delivery risk 248–9
 - subclinical 173
 - temperature increase 248–9
 - treatment 181
- chorion 48–50
- chorionicity 210
- circulation, neonates 268
- clindamycin, mode of action 181
- clinical judgement 378
- clinical trials, parental agreement 377
- clomiphene 12–13
- Clostridium difficile* 181
- clotting screen, intrauterine death 216–17
- clumsiness *see* dyspraxia
- coagulopathy in pre-eclampsia 244–5
- co-amoxiclav 180–1
 - hazards of use 181
 - necrotising enterocolitis 181
 - preterm labour use 204
- cognitive ability
 - school age children 123–4
- collagen
 - cervical ripening 89–92
 - cervical structure 38–9, 40
 - fetal membranes 48–50
 - fibroblast production 45
- collagen graft 183
- collagenases 9, 36–7, 40, 89–92
 - relaxin stimulation 143–4
- colony-stimulating factors 286
- common law
 - competence 340
 - Scotland 356–7
- compensation, loss of good outcome 351–2
- competence 339–45
 - absence 340–2
 - children 343–5

401 Index

- common law 340
- treatment refusal 343–4
- young people 343–5
- complications, development 377
- Congenital Disabilities (Civil Liability) Act (1976)
 - 353, 354
 - liability under 355–6
- congenital malformations, lethal 115
- connective tissue disorders 158
- connexin-26 27–8
- connexin-43 27–8
 - gene 94
 - upregulation in labour 96
- consent 329–32
 - legal validity 330
 - parental 366–8
- consultants 312–14,
- continuous positive airway pressure (CPAP) 267–8, 274
- contraction-associated proteins 76
- contractions, preterm 144
- cord entanglement 220
 - multiple births 220–1
- cordocentesis 173
 - IUGR 227
- corticosteroids
 - anaesthesia in preterm labour 249
 - antenatal use 111–12, 182–3, 271
 - contraindications 203
 - fetal lung maturity 223–4
 - gestational age 203
 - IUGR 227
 - magnesium sulphate combination 224–5
 - maternal therapy 202–3
 - multiple pregnancies 214–16
 - postnatal 274–5
 - repeated doses 202–3
 - surfactant therapy 203
- corticotrophin-releasing hormone
 - labour onset 54
 - predictive value 143
 - prostaglandin synthesis stimulation 85
- corticotrophin-releasing hormone receptors 54
- corticotrophin-releasing hormone-binding protein (CRH-BP) 54
- cortisol, labour onset 52–3
- cost effectiveness of management strategies 318–20
- costs in negligence claims 357–9
- counselling 295–6, 320–5
 - Caesarean section 323–4
 - labour 323–4
 - preliminary discussion 323
 - pre-pregnancy 159–60
 - resuscitation 324–5
 - transfer 324
- courts
 - authorisation of course of action 378
 - doctors’ professional judgement 377–8
- CRE modulator protein (CREM) 93–4
- C-reactive protein 173
 - neonates 284–5
 - pregnancy risk 194
- creatinine, maternal levels 247
- criminal law limitations 368–72
- critical care services 312
- cryoprecipitate 183
- cryotherapy, retinopathy of prematurity 287
- cyclo-oxygenase (COX) 33–4, 77–8, 83–6
- cyclo-oxygenase 1 (COX-1) 200
- cyclo-oxygenase 2 (COX-2)
 - gene C/EBP site 85–6
 - gene expression in uterine tissue 85
 - gene induction 85–6
 - myometrial expression 84–5
 - promoter 85, 85–6
 - role in labour 83–6
 - selective prostaglandin inhibitors 200
 - transcription mediation 86
- cyclo-oxygenase 2 (COX-2) inhibitors 161, 200
- cyclosporin 247–8
- cytokines
 - cascade 55–6
 - inflammatory 9
 - cervical changes 76–7
 - fetal exposure 182
 - predictive value 144–5
 - myometrial contraction 34
 - neonatal assay 285
 - pro-inflammatory 36–7, 46–7, 176–7
 - periventricular leukomalacia 175–6
- damages
 - Scottish law 356–7
 - wrongful life actions 353
- death
 - acceleration 383–4
 - age at 112–13
 - allowing 370–1
 - dignified 383–4, 388

402 Index

- decision-making
 - parents 367
 - involvement 367–8
 - proxy 365
 - quality of life 375–6
 - treatment 364–5
- decorin 41
- deformities, right of action 354–5
- delivery
 - iatrogenic 1, 2, 4, 5–6
 - immediate versus delayed 177–9, 194
 - management 204–5
 - mode 184–5
 - anaesthesia provision 252
 - intracranial trauma risk 254
 - IUGR 228
 - pre-eclampsia 225
 - preterm breech 205
 - vertex presentation 205
 - pre-eclampsia 225
 - see also preterm delivery
- dermatan 38–9
- dermatan sulphate 41
- dermatan sulphate proteoglycan II 41
- developmental quotient (DQ) 118
- dexamethasone
 - anaesthesia in preterm labour 249
 - antenatal use 182–3
 - IL-8 inhibition 91
 - maternal therapy 202–3
 - NF- κ B effects 91
- diabetes mellitus 158
 - anaesthesia in preterm labour 249
 - β sympathomimetics 196–7
 - prophylactic medical care 159–60
 - steroid contraindications 203
- diacylglycerol 34–5
- digital examination
 - membrane rupture diagnosis 171–2
 - preterm labour 191
- disability 109, 117
 - outcome 116
 - overall severe 117–18
 - prematurity 174–5
 - quality of life 375–6
 - rate 109–15
 - substituted judgement 376–7
 - see also neurological disability
- discharge arrangements for neonates 293
- disclosure, doctors to patients 331–2
- disease, right of action 354–5
- disseminated intravascular coagulation (DIC)
 - intrauterine death 216–17
 - pre-eclampsia 244–5
- diving reflex 289
- dobutamine 276
- doctors
 - clinical judgement 378
 - developments in practice 349–50
 - disclosure to patients 331–2
 - duty of care to parents 391
 - junior practitioner 350–1
 - newly qualified 350–1
 - obstetricians 322–3
 - professional judgement 377–8
 - professional opinion differences 377–8
- doctrine of necessity 341
 - Scotland 342–3
 - treatment of child 368
- doctrine of *res ipsa loquitur* 350
- doctrine of strict liability 346
- dopamine 276
- double-stranded oligodeoxynucleotides (ODN) 97
- drugs
 - administration
 - neonates 269–71
 - pregnancy 238–9
 - pharmacology in pregnancy 238
- drugs, recreational 154–6
- ductus arteriosus
 - patent 275–6
 - adverse effects 275–6
 - premature closure 199–200
- duty of care 345–6
 - breach 346, 349
 - developments in practice 349–50
 - nature and extent 370
 - negligence 346
 - to parents 391
- dyspraxia 123
- eclampsia 222
- economic evaluations 315–16
 - stages 315–16
 - types 315
- economics of service provision 315–20
 - interest 317–18

403 Index

- eicosanoids 36–7
- elastase 36–7, 40
- elastin 39–42
- elective delivery *see* iatrogenic delivery
- embryo
 - decisions made by mother 334
 - legal standing 334
- emergency treatment 343
- emotional support, maternal 254
- encephalopathy
 - Caesarean section risk 184–5
 - neonatal with IUGR 227
- endoscopic repair of membranes 183
- endothelin receptors 34–5
- endothelins
 - myometrial contraction 34–5
 - myometrial stimulation 53
- endotoxins 9
 - intra-amniotic 176–7
- enteral nutrition 277–8
 - minimal 279–80
- environmental pollution 17
- ephedrine 242
- epidural analgesia
 - fetal temperature increase 248–9
 - post-operative 239
 - preterm labour 254, 255
 - vasodilatation 242
- epidural haematoma 246
- epinephrine, *see* adrenaline
- erythromycin
 - mode of action 181
 - preterm labour use 204
 - prophylactic 180–1
- erythropoiesis 280
- erythropoietin, recombinant 281
- Escherichia coli* 283–4
- ethics, status of fetus/embryo 334
- European Convention on Human Rights 338, 387
 - entitlement to life 368–9
 - parental responsibility 366
 - parental rights 388–9
- expert evidence 347–8
- extended perinatal mortality rate (EPMR) 114
- extremely low birthweight babies
 - behavioural outcomes 125
 - cognitive ability at school age 123–4
 - deaths 112–13
 - motor function 123
- extremely preterm infants
 - feeding problems 122
 - peri-viable 294–5
- Family Law Reform Act (1969) 344
- family life, respect for 388–9
- feed tolerance 279–80
- feeding
 - difficulties 121–2
 - failure to 384–5
 - intolerance 279
 - neonates 277–83
 - problems 122
- fentanyl 255
- fetal distress
 - intrapartum 227
 - labour with pre-eclampsia 223
- fetal membranes 48–9
 - changes in labour 76–7
 - relaxin in maturation 143–4
 - tensile strength 48–9
 - see also* membrane rupture; premature rupture of membranes; preterm premature rupture of the membranes (pPROM)
- fetal monitoring
 - anaesthesia 237, 253
 - intrapartum 204–5
 - parents’ wishes 323–4
- fetus
 - compromise in maternal pulmonary hypertension 240
 - decisions made by mother 334
 - deteriorating condition 5
 - growth restriction 154–5
 - inflammatory response 171
 - legal standing 334–5, 339
 - management recommendations 321
 - maternal behaviour modulation 336–7
 - medical intervention 337
 - negligence causing death 353
 - safeguarding 336–7
 - treatment as person with rights 335–6
 - ultrasound imaging 214–16
 - viability 1
 - wellbeing in multiple pregnancies 214–16
- fibroblasts, cervical 39
- fibronectin, fetal 320
 - bedside testing 134–5
 - cervical length combination 147
 - cervico-vaginal secretions 134–5, 192–3
 - clinical utility 134–5

404 Index

- fibronectin, fetal (cont.)
 - membrane content 48–9
 - multiple pregnancies 212
 - predictive value 134, 146
 - preterm uterine activity 147
- fluids
 - management guidelines 278
 - neonates 277
 - withdrawing/withholding 370–1
 - see also* hydration
- folic acid supplementation 293
- follow-up compliance 115
- food *see* nutrition
- forced expiratory volume in 1 second (FEV1) 122–3
- forced vital capacity (FVC) 122–3
- fungaemia 283–4
- funnelling of cervix 137, 171–2
- galanin 30
- gamete intrafallopian transfer (GIFT) 158–60
- gap junctions 27, 37
- Gardnerella vaginalis* 6, 55–6
- gastrin-releasing peptide 30
- gastrointestinal colic 194
- gastro-oesophageal reflux 122
- genital tract infection 154–5
 - multiple pregnancies 216
- germinal matrix
 - bleeding 287–90
 - haemorrhage 289–90
- gestational age 1, 110
 - calculation 324
 - determination 3–4
 - legal definitions 2
 - lower limit 2–3
 - multiple birth delivery 211, 219
 - preterm delivery risk 133
 - preterm labour 191
 - steroid benefits 203
- Geudel airway 265–6
- Gillick competence 343–4
- glucocorticoids 86, 97
 - antenatal 183
- glyceryl trinitrate 36, 160
- glycosaminoglycans 38–42
 - fibroblast production 45
- G-proteins 30
- granulocyte colony-stimulating factor (G-CSF)
 - predictive value 145
- growth
 - catch-up 126–7
 - restriction 110, 114
 - school age children 126–7
- haematological scoring systems, neonatal 284–5
- haemodialysis, chronic 247
- haemoglobin 280–1
- haemostatic function 199–200
- harm
 - establishment 352–3
 - liability 346
 - serious 372
- healthcare team
 - consensus approach 383
 - disagreement with parents 373
 - see also* doctors; nurses; staff, hospital
- health-related quality of life 126
- hearing impairment 119
- heart disease, congenital maternal 241
- heart rate, fetal
 - anaesthetic drugs 237
 - auscultation 214–16, 323–4
 - continuous electronic monitoring 227
- heat loss 261–5
 - neonates 272
- HELLP syndrome (haemolysis, elevated liver enzymes and low platelets) 222, 224
 - delivery 245
 - pre-eclampsia 244–5
- heparan sulphate 38–9
- heparin 38–9
- home uterine activity monitoring (HUAM) 135–6
- home-based care 320
- hospitals
 - admissions 317
 - bed occupancy 309–10
 - service economics 317
 - see also* staff, hospital
- host defences, immature 284
- human chorionic gonadotrophin (hCG) 161
- human rights 338
 - decision-making 377
 - parental responsibility 366
 - principles 387
 - see also* European Convention on Human Rights
- Human Rights Act (1998) 387–8
- humidification, environmental for neonate 272
- hyaluronic acid 38–9, 41

405 Index

- hydralazine 243
- hydration 202, 384–5
 - benefits 385
 - burdens 385
 - as medical treatment 384
 - withholding 370–1
- hydrocephaly, post-haemorrhagic 290
- hydrocortisone 277
- 17 α -hydroxyprogesterone caproate 32
- 15-hydroxyprostaglandin dehydrogenase (PGDH)
 - 34, 77–8
 - expression 88
 - function 88–9
 - isoforms 88–9
 - promoter 88–9
- hyperactivity 125
- hyperbilirubinaemia 283
- hypercaloric feeding 279–80
- hyperoxia 267
- hypertension
 - anaesthesia in preterm labour 249
 - planned preterm delivery 242–5
 - pre-eclampsia 222–3
 - pregnancy 158
- hyponatraemia 277
- hypotension
 - neonates 276–7
 - regional anaesthesia 251
- hypothermia prevention 261–5
- hypovolaemia correction 276
- hypoxia 37
 - fetal 177
 - fetal stress 184–5
 - intrapartum 228
 - IUGR 227, 228
 - neonatal acidosis 270–1
 - placental bed 222–3
 - resistance 288–9
- hypoxia-ischaemia, brain sensitisation 184
- iatrogenic delivery 1, 2, 4, 5–6
 - preterm 225, 228
- ibuprofen 276
- idiopathic preterm delivery 6
 - black population 155
- I κ B kinase complex (IKK) 81–2, 97
- I κ B β protein 95, 97
- ileal perforation, indomethacin-induced 199–200
- immaturity 109–10
 - blindness 118–19
- immunosuppressive treatment 247–8
- incubators
 - temperature control 272
- indomethacin 160
 - anaesthetic implications 251
 - medical emergencies 237
 - patent ductus arteriosus closure 276
 - polyhydramnios 217
 - renal function 199–200
 - tocolysis 182, 199–200
- Infant Life Preservation Act (1929), child
 - destruction offence 390–1
- infections 6–10, 54–6
 - amniotic fluid proinflammatory cytokines 144
 - cause of death 174–5
 - clinical signs 173
 - extra-uterine 9–10
 - fetal
 - assessment 173
 - biophysical score 173–4
 - hypoxia-ischaemia combination 184
 - genital tract 154–5
 - intra-amniotic 171
 - intrauterine 8–9, 287–90
 - lower genital tract 6–8
 - lower respiratory tract 122
 - materno-fetal 171
 - diagnosis 172–4
 - neonatal 283–6
 - prevention 286
 - prophylactic antibiotics 180–1
 - susceptibility 284
 - nosocomial with parenteral nutrition 277–8
 - organism cultures 285–6
 - systemic 158
- inflammation/inflammatory response, fetal 171
 - assessment 173
 - detection 173–4
- inflammatory cells 76–7
- inflammatory mediators 46–7
 - myometrial contraction 36–7
- information for parents 367
- inhibitory proteins (I κ Bs) 81–2
- inositol 1,4,5-triphosphate 32–3, 34–5
- inpatient management of preterm labour 194
- insulin release 196–7
- intellectual impairment 118
- intensive care
 - adult facilities 312
 - see also* Neonatal Intensive Care Unit

406 Index

- interleukin 1(IL-1)
 - membrane rupture 50–1
 - prostaglandin production 53
- interleukin 1 β (IL-1 β) 36–7, 46–7
 - bronchopulmonary dysplasia 176–7
 - up-regulation in labour 96
- interleukin 6 (IL-6) 36–7, 46–7
 - amniotic fluid levels 144
 - bronchopulmonary dysplasia 176–7
 - neonatal assay 285
 - periventricular leukomalacia 175–6
 - prostaglandin production 53
- interleukin 8 (IL-8) 36–7, 46–7, 77, 89–92
 - bronchopulmonary dysplasia 176–7
 - neonatal assay 285
 - production 90
 - during labour 91–2
 - promoter binding sites 90–1
- interleukin 8 (IL-8) gene 90
 - expression 90
- interleukin 10 (IL-10) 97
- interventions for benefit of adult 342–3
- intraparenchymal haemorrhage 289–90
- intrauterine death, multiple pregnancies 216–17
- intrauterine growth restriction (IUGR)
 - 159, 225–8
 - aetiology 225–6
 - corticosteroids 227
 - definition 225–6
 - delivery 228
 - elective 228
 - diagnosis 226
 - extremes of viability 228
 - incidence 226
 - management 226–8
 - monitoring 227
 - placental insufficiency 223
 - pre-eclampsia 223
 - tocolysis 226–7
 - transfer to neonatal intensive care 227–8
- intrauterine infection 8–9, 287–90
- intraventricular haemorrhage 174–5, 289–90
 - antenatal glucocorticoids 183
 - patent ductus arteriosus 275–6
 - steroid prophylaxis 182–3, 202–3
- intubation, neonates 267–8
- in vitro fertilisation (IVF) 158–60
- IQ levels 118, 127
- iron supplementation 281, 293
- jaundice
 - causes 282
 - neonates 282
 - risk factors 282
 - side effects of treatment 283
 - treatment threshold 283
- judgements, substituted 376–7
- jugular vein, internal, cannulation 243–4
- kernicterus 283
- killing
 - active 370–1
 - intentional 371–2
- Kleihauer test 191
- kyphoscoliosis 246–7
- labetolol 243
- labour
 - induction 225
 - maternal hypertension 242–3
 - management 204–5, 329, 338–9
 - onset
 - transcription factors 93
 - triggers 52–3
 - precipitation risk 236–9
 - term 52–4
 - see also* preterm labour
- labour-associated proteins 76–7
- laparoscopic surgery 239
- laser therapy for retinopathy of prematurity 287
- left handedness 123
- legal issues *see* treatment, legal issues
- leukocytes 36–7, 46–7
 - cervical ripening 53
 - protease-producing 45
- liability, no-fault 357–8, 359
- life, obligation to protect 387
- life-prolonging treatment 382–3
- lifestyle modification 154–8
- lipopolysaccharide 55–6, 79–80, 83
- Listeria monocytogenes* 9
- litigation costs 308
- L-NAME 47–8
- London Regional Specialised Commissioning Group (LRSCG) 308–11
- lung(s)
 - fetal maturity 214–16
 - corticosteroids 223–4
 - cost effectiveness 319–20
 - inflation pressure 266–7

407 Index

- injury 176–7
- maturation enhancement 183
- see also* [pulmonary entries](#)
- lung disease, chronic 120–1, 122–3
 - adolescents/young adults 127
 - CPAP use 267–8
 - fetal exposure to inflammation 176–7
 - materno-fetal infection 171
 - mechanical ventilation 273–4
 - school age children 122–3
 - steroid therapy 274–5
- lung disease, restrictive in pregnancy 246–7
- lung function tests
 - adolescents/young adults 127
 - school age children 122–3
- luteolysis induction 83
- macrophages 55–6
- magnesium sulphate 160
 - adverse effects 200–1
 - anaesthetic implications 251
 - corticosteroid combination 224–5
 - medical emergencies 237
 - pre-eclampsia 224–5, 244
 - tocolysis 182, 200–1
- malabsorption, short bowel syndrome 121–2
- malpresentation
 - IUGR 228
 - multiple births 220–1
- managed clinical networks 309–10, 314
 - guidelines 310
- management strategies, cost effectiveness 318–20
- manslaughter prohibition 368–9
- marital status 14
- maternal age 13–14
- maternal disease management 158–60
- maternal/fetal conflict 338
- maternal-placental perfusion 216
- maternity services 310–11
 - guidelines 310–11
- matrix metalloproteinase (MMP) 40, 46–7
 - membrane rupture 50–1
 - preterm prelabour 51
- matrix metalloproteinase 8 (MMP-8) 89–92
 - upregulation in labour 96
- matrix metalloproteinase 9 (MMP-9) 145
- medical emergencies 236–7
 - preterm labour prevention 237
- medical practice
 - practitioner responsibilities 349–50
 - technique varying 350
- membrane rupture 48–52
 - biochemical events 50–1
 - diagnosis 171–2
 - endoscopic repair 183
 - morphological changes 49–50
 - zone of altered morphology 49–51
 - see also* [premature rupture of membranes](#);
[preterm premature rupture of the membranes \(pPROM\)](#)
- Mental Incapacity Bill 341–2
- mesenteric artery, superior, flow velocity 279
- mifepristone 32
- miscarriage
 - risk with anaesthesia 237
 - see also* [stillbirth](#)
- morbidity
 - bias 110
 - maternal 310
 - neonatal 179
 - pulmonary insufficiency 177–8
 - short-term 119–22
- mortality
 - bias 110
 - outcome studies 115
 - prematurity 174–5
 - rate 112–13
 - steroid prophylaxis 182–3
 - studies 116
 - time of death 112–13
- motor coordination, fine 123
- motor disability, periventricular leukomalacia 292
- multi-organ dysfunction 222–3
- multiple births 4, 13
 - Caesarean section 218
 - diamniotic preterm first twin breech 220
 - diamniotic very low birthweight 219
 - higher-order 220–1
 - limits of viability 221
 - risks 221
 - care in different neonatal units 307
 - cord entanglement 220–1
 - delivery
 - gestational age 211, 219
 - limits of viability 221
 - mode 218–21
 - diamniotic
 - preterm first twin breech 220
 - very low birth weight 218–19
 - limits of viability 221

408 Index

- multiple births (cont.)
 - locking 220–1
 - malpresentation 220–1
 - medical staffing 221
 - monoamniotic 220
 - outcome assessment 114
 - resuscitation equipment 261–3
 - triplets 220–1
 - vaginal delivery 218
 - risks 222
 - see also* twin pregnancy
- multiple pregnancies 12, 13, 37, 210–21
 - aetiology 210–11
 - bed rest 212–13
 - cervical cerclage 211–12, 213
 - cervical length 141
 - chorioamnionitis 216, 221
 - complications 214
 - corticosteroids 214–16
 - fetal fibronectin 212
 - genital tract infection 216
 - home uterine activity monitoring 212
 - incidence 210–11
 - intrauterine death 216–17
 - investigations 215
 - threatened preterm labour 214–16
 - observations 215
 - perinatal morbidity/mortality 210–11
 - placental abruption 216
 - polyhydramnios 217
 - prenatal care 212
 - preventive strategies for preterm labour 212–14
 - risk prediction 211–12
 - tocolysis 213, 217
 - transfer to neonatal unit 217–18
 - treatment of threatened preterm labour
 - 216–18
 - ultrasound assessment 211–12
 - uterus over-distension 211
 - see also* twin pregnancy
- murder
 - attempted 384–5
 - prohibition 368–9
- mycoplasmas, genital 8
- myometrial contractions 26
 - cervical tissue 89–92
 - fundally dominant 76
 - metabolic modulation 37
 - oxytocin stimulation 32–3
 - strength 191
- myometrium
 - cholinergic stimulation 30
 - electrical activity 28
 - function control 30, 31
 - hormonal modulation 30–7
 - labour onset 76
 - neuronal modulation 30
 - oxytocin sensitivity 197–8
 - smooth muscle 27–8
 - contractility 161–2
 - stretch 94–5
- myosin 28
- myosin light chain kinase (MLCK) 28, 29
- myosin light chain phosphatase (MLCP) 161–2
- myosin light chains, dephosphorylation 29
- naloxone 270
- naproxen 251
- nasal intermittent positive pressure ventilation (NIPPV) 274
- nasciturus* principle 356
- national cohorts 111
- necrotising enterocolitis 121–2, 278–80
 - co-amoxiclav 181, 204
 - indomethacin-induced 199–200
 - patent ductus arteriosus 275–6
- negligence
 - causation 351–2
 - causing death of fetus 353
 - child born injured 354–5
 - contribution to injury 351
 - costs of claims 357–9
 - duty of care 345, 346
 - gross 372
 - liability in obstetric care 345–57
 - medical professional 347–8
 - reform of actions 357–9
 - relationship between wrongdoer/harmed 346
 - Scottish law 356–7
 - statutory offence 372
- Neisseria gonorrhoeae* 55–6
- neonatal care categories 308–9
- Neonatal Intensive Care Unit
 - admission 271–2
 - cot blocking 307
- neonatal life support algorithm 263–4
- neonatal management, differences over time
 - 111–12
- neonatal services, specialist 313
- neonatal unit needs 307

- neonates
 - abnormalities and right of action 354–5
 - born injured through negligence 354–5
 - cardiovascular system 275–7
 - discharge arrangements 293
 - electrolytes 277
 - feeding 277–83
 - fluids 277
 - infections 180–1, 283–6
 - jaundice 282
 - long-term follow-up 295–7
 - management
 - recommendations 321
 - until discharge 271–82
 - neurological screening 287–90
 - nutrition 277–83
 - outcome
 - interventions 182–4
 - predelivery interventions 201–4
 - prophylactic antibiotics 180–1
 - peri-viable 294–5
 - physiological condition 254
 - predischarge arrangements 287–93
 - respiration 272–5
 - support withdrawal 324–5
 - thermal environment 272
 - transfusion 280–2
 - see also* resuscitation
- neonaticide 383–4
- neonatologists, obstetrician collaboration 322–3
- Neopuff flow-controlled pressure-limited device 266
- neurological disability
 - IUGR 227
 - materno-fetal infection 171
 - NHS Redress Scheme 358
- neurological screening of neonates 287–90
- neuronal migration abnormalities 287–90
- neuropeptide Y 30
- neutrophils 89–90
 - neonatal transfusion 286
- NF- κ B 81–2, 94–5
 - activation in amnion in labour 95
 - amnion cells 88–9
 - AP-1 cross-coupling 95
 - bacterial endotoxin 83
 - binding blocking 97
 - COX-2 promoter 85–6
 - dexamethasone effect 91
 - double-stranded oligodeoxynucleotides 97
 - functions 95
 - inhibition 96–8
 - pathway 82–3
 - PGDH downregulation 88–9
 - preterm delivery prevention 96–8
 - therapeutic target 97
- NHS Redress Scheme 358
- nifedipine 160, 243
 - anaesthetic implications 252
 - dosage 199
 - maternal side effects 198–9
 - multiple pregnancies 217
 - tocolysis 198
- nimesulide 200
- Nitrazine test 171–2
- nitric oxide
 - L-arginine system 47–8
 - cervical ripening 47–8
 - donors 35, 36, 160, 201
 - myometrial contractility 35–6
- nitric oxide synthase 35–6
- ‘no chance’ situation 382–3
- ‘no purpose’ situation 382–3
- no-fault liability 357–8, 359
- non-resuscitation 383
- non-steroidal anti-inflammatory drugs (NSAIDs)
 - 77, 238–9
- nuclear factor kappa B *see* NF- κ B
- nurses
 - recruitment/retention 312–13
 - specialist 307
- nutrition 16, 384–5
 - artificial 384
 - benefits 385
 - burdens 385
 - as medical treatment 384
 - neonates 277–83
 - withdrawing/withholding 370–1
- nutritional status 154–5
- obstetricians
 - neonatologist collaboration 322–3
 - preliminary discussion 323
- obstetrics
 - economics 317–18
 - liability for negligence 345–57
- occupation, maternal 16, 154–5
- oestradiol 45
 - labour onset 52–3
 - pregnancy levels 241–2
- 17 β -oestradiol 30–2

410 Index

- oestriol (E3) 30–2, 142–3
 - oestrogen
 - cervical ripening 45
 - myometrial contractility 30
 - oestrogen receptors 142–3
 - oligohydramnios 175
 - indomethacin-induced 199–200
 - IUGR 228
 - neonatal outcome 183
 - prognosis for survival 178
 - ultrasonography 171–2
 - umbilical cord compression 177
 - oliguria 243–4
 - operative delivery 5–6
 - see also* Caesarean section
 - opiate abuse 16–17
 - opioids 238–9
 - organ transplantation 247–8
 - osteonectin 49–50
 - osteopenia of prematurity 277–8
 - outcome(s) 3
 - oligohydramnios 183
 - resource allocation 392–3
 - reviews 109–15
 - outcome measurement 1
 - adolescence 127
 - adults 127
 - denominator 112
 - disability 116
 - follow-up compliance 115
 - growth restriction 114
 - hospital-specific 110–11
 - lethal congenital malformations 115
 - mortality rate 115
 - multiple births 114
 - national cohorts 111
 - peri-viable neonates 294
 - racial characteristics 114–15
 - regional-specific 110–11
 - school age 122–7
 - time period of study 111–12
 - outpatient management of preterm labour 194
 - oxygen
 - dependency 119, 120–1
 - home 120–1, 295–7
 - resuscitation 267
 - saturation level 293
 - oxytocin
 - delivery expediting 178
 - myometrial contraction 32–3
 - myometrium sensitivity 197–8
 - oxytocin antagonists 160, 197–8
 - multiple pregnancies 217
 - tocolysis 182
 - oxytocin receptor 33, 77, 92–3
 - AP-1 binding site 94
 - mRNA downregulation 93
 - promoter 92–3
 - pacemaker cells, myometrial 28
 - packed red blood cell transfusion 280
 - pain, human rights issues 388
 - palliative care 371–2
 - parens patriae* jurisdiction 340–1
 - parenteral nutrition 277–8
 - parents
 - advance authorisations 324–5
 - best interests of child 373–5
 - clinical trials agreements 377
 - consensus approach 383
 - consent 344, 366–8
 - decision-making 321–3, 367
 - involvement 367–8
 - treatment 365
 - disagreement
 - with healthcare team 373
 - with professional opinion 380–1
 - fetal monitoring 323–4
 - human rights 388–9
 - information
 - needs 367
 - presentation 295–6
 - post-operative care commitments 381–2
 - preliminary discussion 323
 - preparation for preterm labour 202
 - preterm infant discharge 293
 - quality of life judgement for child 381–2
 - responsibility 366
 - rights over children 367
- parity 12
- patient-controlled analgesia 238–9
- patients
 - decision-making 332
 - information
 - requirements 330–2
 - on risks 331
 - medical advice acceptance 337
 - refusal to cooperate 337
- D-penicillamine 287
- penicillin, mode of action 181

- perinatal centres 311
 - accommodation of mother 311–12
 - transfers 324
- perinatal mortality, extended rate 114
- periventricular haemorrhage 287–90
 - autoregulation 289
 - classification 289
 - clinical features 290
 - complications 290
 - phenobarbital 204
- periventricular leukomalacia 175–6, 287–90
 - betamethasone 183
 - chorioamnionitis 291–2
 - histopathological changes 291
 - lesion distribution 291
 - motor disability 292
 - prevalence 291
- permanent vegetative state 376, 380, 385
- peroxisome proliferator activator receptor (PPAR)
 - 82–3
 - bacterial endotoxin 83
- peroxisome proliferator response elements (PPREs)
 - 82–3
- pH, uterine 37
- phenobarbital 204
- phosphate supplementation 277–8
- phospholipase A₂ 9, 77–83
 - activation 79–80
 - C/EBP binding sites 81
 - cytosolic 78–9, 80
 - binding sites 80–1
 - promoter 80
 - rapid 80
 - sPLA₂ gene induction 82
 - expression 79
 - secretory 78–9, 81
 - bacterial endotoxin 83
 - gene induction 82
- phospholipases 55–6, 77–8
- phosphorus metabolites 37
- phototherapy 283
- placental abruption 51, 223–4
 - Caesarean section 216
 - multiple pregnancies 216
- pPROM 177
- placental bed, hypoxia 222–3
- placental dysfunction, viral infections 8
- placental insufficiency, pre-eclampsia 223
- placentation, abnormal 222–3
- planning, advance for complex cases 322–3
- plasminogen activators 36–7
- platelet activating factor (PAF)
 - myometrial stimulation 53
- prostaglandins
 - production 53
 - synthesis stimulation 85
- platelets 183
- pneumoperitoneum, carbon dioxide 239
- pneumothorax
 - patent ductus arteriosus 276
 - surfactant administration 269
- pollution, environmental 17
- polyhydramnios, multiple pregnancies 217
- postgraduate training 313–14
- post-operative care, parental commitment 381–2
- postpartum haemorrhage, multiple births 221
- prediction of preterm labour
 - cervical ultrasound 136–42
 - endocrine factors 142–5
 - fetal fibronectin 134–5
 - marker combination 146–7
 - risk scoring 133
 - uterine activity monitoring 135–6
- predischarge arrangements, neonates 287–93
- pre-eclampsia 222–5
 - aetiology 222–3
 - clinical features 243
 - coagulopathy 244–5
 - criteria 224
 - definition 222–3
 - delivery 225
 - general anaesthesia 245
 - gestation
 - greater than 34 weeks 223
 - up to 34 weeks 223–4
 - hypertension 222–3
 - iatrogenic preterm delivery 225
 - incidence of preterm labour 223
 - indications for delivery 244
 - intrauterine growth retardation 223
 - magnesium sulphate 244–5
 - management of preterm labour 223–5
 - placental insufficiency 223
 - planned preterm delivery 242–5
 - severe 223–4
 - tocolysis 223–4
- pregnancy
 - behaviour of women 334
 - brain death 246
 - cardiac arrest 245–6

412 Index

- pregnancy (cont.)
 - cervix 35, 39–42
 - competence absence 340–2
 - complications 194
 - drug administration 238–9
 - hypertension 158
 - interval 12
 - management 329, 332–7
 - medical disorders 158
 - persistent vaginal bleeding 159
 - previous second trimester loss 159
 - problems 337
 - prophylactic medical care 159–60
 - screening 332–4
 - stress 156–7
 - see also* multiple pregnancies
- premature rupture of membranes 48
 - C-reactive protein 173
 - see also* preterm premature rupture of the membranes (pPROM)
- prematurity 174–5
- prenatal care of multiple pregnancies 212
- preterm delivery
 - causes 5–10
 - counselling 323–4
 - definition 1–3
 - economics 318
 - iatrogenic 225, 228
 - idiopathic 6
 - black population 155
 - incidence 1, 4–5, 153–4
 - management recommendations 320–5
 - planned 239–48
 - fetal reasons 240
 - maternal reasons 240–8
 - previous 10–11
 - risk factors 248–9
 - risk with anaesthesia 237, 248–9
 - team planning 240
- preterm labour
 - anaesthetic implications 249–52
 - clinical assessment 191, 192
 - counselling 323–4
 - detection 319
 - diagnosis 191–4
 - differential 194
 - investigations 192–3
 - incidence with pre-eclampsia 223
 - inevitable 248–9, 253
 - investigations 191–3
 - management
 - economics 319–20
 - pre-eclampsia 223–5
 - onset prevention 160–2
 - problems 254
- preterm premature rupture of the membranes (pPROM) 8–9, 48, 51, 171
 - between 25 and 31 weeks gestation 178–9
 - at 32–6 weeks 179
 - amnioinfusion 183
 - cervical cerclage 183–4
 - conservative management 178–9
 - delivery mode 184–5
 - diagnosis 171–4
 - endoscopic repair 183
 - before fetal viability 177–8
 - IL-6 levels 144
 - immediate versus delayed delivery 177–9
 - inpatient management 179–80
 - materno-fetal complications 174–7
 - outpatient management 179–80
 - perinatal survival 177–8
 - previous 11
 - prophylactic antibiotics 164
- private life, respect for 388–9
- professional guidance, legal opinion 382–4
- professional opinion
 - differences 377–8
 - parental disagreement 380–1
- progesterone
 - cervical ripening 45–6
 - functional withdrawal 96
 - IL-8 inhibition 91
 - isoforms 96
 - labour 95–6
 - myometrial contractility 30
 - cPLA₂ inhibitor upregulation 80
 - withdrawal theory 53–4
- progesterone receptors 32
 - function 96
- prognosis 364–5
 - lack of certainty 377
 - uncertain 373–4
- prognostic significance 2
- prostaglandin(s) 9
 - amnion as source 84
 - biosynthetic pathway 77–8
 - cervical changes 76–7
 - cervical ripening 44–5
 - delivery expediting 178

413 Index

- ductus arteriosus patency 199–200
- glucocorticoid inhibition 86
- labour onset 53
- myometrial contraction 33–5
- prostaglandin D synthase (PGDS) 87
- prostaglandin D₂ 77–8
- prostaglandin dehydrogenase 88–9
 - chorionic 53
- prostaglandin E synthase (PGES) 87
 - membrane-associated 87
- prostaglandin E₂ 34, 77–8
 - cervical ripening 44–5
 - MMP activity 50–1
 - production inhibition 86
 - synthesis 33–4
- prostaglandin F synthase (PGFS) 87
- prostaglandin F_{2α} 34, 77–8
 - cervical ripening 44–5
 - MMP activity 50–1
- prostaglandin I synthase (PGIS) 87
- prostaglandin I₂ 77–8
 - cervical ripening 44–5
- prostaglandin synthases 87
- prostaglandin synthesis inhibitors 199–200
 - haemostatic function 199–200
 - side effects 200
- prostaglandin synthetase inhibitors 251
- proteases 9, 51
- protein kinases 80
- proteoglycan, cervical 41–2
- pseudomembranous colitis 181
- psychiatric disease 15
- psychological stress 156–8
- pulmonary dysfunction, adolescents/young adults 127
- pulmonary hypertension
 - maternal 240, 241
 - persistent 199–200
- pulmonary hypoplasia, oligohydramnios 175
- pulmonary insufficiency 174–5
 - morbidity 177–8
- pulmonary oedema
 - β-adrenergic agent therapy 250–1
 - β sympathomimetics 217
 - magnesium sulphate with corticosteroids 224–5
 - maternal hydration effect 202
 - pre-eclampsia 223–4, 243–4
- pyelonephritis 9, 158
- quality of life
 - decision-making 375–6
 - disability 375–6
 - evaluation of expected 374–5
 - expectation 375–6
 - judgements 364–5, 374, 375
 - life-saving/prolonging treatments 380
 - objective 126
 - parental judgement 381–2
 - resource allocation 392–3
 - school age children 126
- race of mother 14–15, 155
- racial characteristics 114–15
- referral centres 110–11
- rehospitalisation 122
- relaxin 46
 - predictive value 143–4
- relaxin receptors 143–4
- renal disease 158
 - maternal 247
- renal function 199–200
- reproductive disorders 158–60
- res ipsa loquitur* doctrine 350
- research
 - base 314
 - economics of obstetrics 318
- resource allocation 365, 391–3
 - Jaimee Bowen case 378
 - outcomes 392–3
 - quality of life 392–3
- respiration, neonates 272–5
- respiratory disease, maternal 246–8
- respiratory distress syndrome 111–12, 174–5
 - anaesthesia in preterm labour 249
 - lung injury 269
 - prematurity-related 179
 - prevention 134–5
 - risk 269
 - steroid prophylaxis 182–3, 202–3
- respiratory support, air versus oxygen 267
- respiratory symptoms, chronic at school age 122–3
- respiratory syncytial virus (RSV) 122
- resuscitation 260–71
 - air versus oxygen 267
 - airway 265–6
 - anticipation 260–1
 - at birth 389–91
 - breathing 266–8
 - counselling 324–5
 - decision not to 295, 324–5, 383

414 Index

- resuscitation (cont.)
 - equipment 261–3
 - futile treatment 379–80
 - high-risk infants 260–1
 - human rights issues 387
 - hypothermia prevention 261–5
 - initial assessment 265
 - limit absence 294–5
 - personnel 261–4
 - preparation 261–4
 - procedure 261
- retinopathy of prematurity 117, 118–19, 121
 - autism risk 125–6
 - interventions 287
 - ophthalmological surveillance 295–7
 - patent ductus arteriosus 276
 - risk 287
- review groups 308–9
- Rho A 161–2
- Rho associated coil-forming protein kinase (ROCK I and II) 161–2
- Rho kinase inhibitors 161–2
- risk factors for preterm delivery 3, 10–18
 - epidemiological 153, 154
 - maternal 10–18
- ritodrine 160, 195–6
 - anaesthesia in preterm labour 250–1
 - fetal effects 197
 - infusion 197
 - maternal effects 196–7
 - pre-eclampsia 223–4
 - side effects 196
- sanctity of life principle 374–5
- sarcoplasmic reticulum 29
- school age, outcomes 122–7
- scoring system, preterm delivery risk 133
- Scotland
 - children 344–5
 - common law 356–7
 - doctrine of necessity 342–3
 - emergency treatment 343
 - interventions for benefit of adult 342–3
 - young people 344–5
- screening tests 332–4
 - availability 333–4
 - choice 333
 - preterm delivery risk 133
- selection bias 112
- sepsis 283–4
 - maternal 178
 - neonatal clinical features 284–5
- service(s)
 - guidelines 310
 - integrated 309–10
 - requirements 307–14
- service infrastructure 309–10
 - change implementation 314
- service provision economics 315–20
 - hospitals 317
- sex, fetal 17
- short bowel syndrome 121–2
- small for gestational age fetus 225–6
- smoking 15, 16
 - risk factor 154–5
 - social deprivation 156
- smooth muscle
 - cervical 39
 - contractility 161–2
- social support, enhanced 157–8
- sociodemographic risk factors 13–15, 17
- socioeconomic factors 154–5
 - stress 157–8
- socioeconomic status 4, 14–15
- sodium bicarbonate 270–1
- spinal analgesia 242
- spiral artery conversion failure 222–3
- spontaneous delivery 1
- staff, hospital 272
 - counselling 295–6
 - requirements 312–13
 - resuscitation 261–4
 - see also* doctors; nurses
- standard of care 346–50
- standard practice, departure from 349
- staphylococci, coagulase-negative 283–4
- Staphylococcus aureus* 283–4
- steroid hormones 95–6
 - see also* corticosteroids
- stillbirth
 - definition 390
 - IUGR 227
- strabismus 121
- streptococcus group B 7
- stress 15
 - pregnancy 156–7
 - psychological 156–8
 - socioeconomic factors 157–8
- strictures, intestinal 121–2
- subclavian vein cannulation 243–4

415 Index

- subependymal haemorrhage 289–90
- substance abuse 16–17
- substance P 30
- succinylcholine 251
- suffering, human rights issues 388
- sulindac 217
- surfactant therapy 269
 - antenatal steroids 271
 - neonates 272–3
 - racial characteristics of babies 115
 - steroid use 203
 - types 269
 - ventilated babies 111–12
- surgery
 - fetal monitoring 237
 - laparoscopic 239
 - service organisation 308
- survival
 - benefit to child 380
 - harm to child 380
 - neonatal 153–4, 174–5
 - oligohydramnios prognosis 178
 - perinatal following pPROM 177–8
 - rate 109–15
 - resuscitation 260–1
- swallowing problems 122
- symphysis pubis pain 194
- systemic lupus erythematosus (SLE) 17, 158
 - prophylactic medical care 159–60
- tachycardia 275
- tachypnoea 275
- temperature, environmental for neonates 272
- temperature, fetal increase with epidural analgesia 248–9
- terbutaline 160
- Δ^9 tetrahydrocannabinol (D^9 – THC) 156
- thalidomide 354
- Thames Regional Perinatal Group (TRPG) 308–11
- thrombin, placental abruption 51
- thrombocytopenia 224
 - neonatal sepsis 284–5
 - pre-eclampsia 244–5
- thromboembolism, maternal 246
 - risk 247–8
- thromboxane 77–8
- thromboxane synthase (TXS) 87
- thyrotrophin releasing hormone (TRH) 203–4
- tissue inhibitors of metalloproteinase (TIMP) 46–7
 - membrane rupture 50–1
- tissue use constraints 324–5
- tocolysis/tocolytic agents 31
 - anaesthesia in preterm labour 249–52
 - beneficial effects 195
 - cervical ripening 38
 - chorioamnionitis treatment 182
 - contraindication 182
 - placental abruption 216
 - intrauterine death in multiple pregnancy 216–17
 - intravenous access 214–16
 - IUGR 226–7
 - magnesium sulphate 224–5
 - multiple pregnancies 213, 217
 - pre-eclampsia 223–4
 - preterm labour
 - onset prevention 160–2
 - threatened 194–201
 - prophylactic 160–2
- T-piece breathing device 266
- training, postgraduate 313–14
- transcription factors, labour onset 93
- transfer
 - counselling 324
 - delayed with pulmonary oedema 243–4
 - disadvantages 307
 - intrauterine 324
 - to neonatal unit 217–18
 - neonatal intensive care 227–8
 - postnatal 324
 - pre-eclampsia 223–4
 - transport services 311–12
- transfusion
 - neonates 280–2
 - response to 280–1
 - risks 281
- transport services 311–12
- treatment, legal issues 364–5
 - assault 380
 - benefits 365, 375, 379, 380, 385
 - burdens 375, 379, 385
 - court distinction from intentional killing 371–2
 - criminal law limitations 368–72
 - damages 353, 356–7
 - decision-making 364–5
 - disagreements 372–3
 - futility 364–5, 379–80, 387
 - given in best interests 341

416 Index

- treatment, legal issues (cont.)
 - harms 365, 380
 - inappropriate 388
 - legal principles 366–8
 - life-prolonging 380, 387
 - life-saving 380
 - litigation costs 308
 - no-fault liability 357–8, 359
 - professional guidance 382–4
 - refusal 343–4
 - relative efficacy 377
 - utility 364–5
 - withdrawing/withholding 380
 - resources 392–3
 - see also common law; competence; courts; damages; negligence; Scotland
- Trichomonas vaginalis* 55–6
- tumour necrosis factor (TNF) 53
- tumour necrosis factor α (TNF α) 36–7
 - MMP-1 production 51
- turquoise light phototherapy 283
- twin pregnancy 159
 - diamniotic 210
 - delivery 218–19, 220
 - dichorionic 216–17
 - dizygotic 210
 - locked twins 220
 - monoamniotic 210
 - delivery 220
 - monochorionic 210, 216–17
 - cerebral palsy risk 291
 - monozygotic 210
- ultrasound imaging 3, 4, 110
 - biometry 225–6
 - cervical length 163–4, 171–2, 193
 - cervix 136–42, 159–60
 - dilatation 171–2
 - cranial 291, 291–2
 - fetal assessment 173–4, 214–16
 - multiple pregnancies 211–12
 - oligohydramnios 171–2
 - preterm labour 191
 - three-dimensional 138
 - translabial in membrane rupture diagnosis 171–2
 - transvaginal 136
 - cervical canal length 163–4
 - cervix 159–60
 - membrane rupture diagnosis 171–2
- umbilical artery, absent end-diastolic flow 279
- umbilical cord compression 177
- ‘unbearable’ situation 382–3
- Ureaplasma urealyticum* 55–6
- urinary tract infection 158
- uterine activity
 - contractile 26–7
 - home monitoring 212
 - monitoring 135–6
 - preterm 147
- uterus
 - over-distension 211
 - palpation 191
 - physical abnormalities 17
- vaginal bleeding, persistent in pregnancy 159
- vaginal delivery
 - intracranial trauma risk 254
 - maternal hypertension 242–3
 - multiple births 218
 - risks 222
- vaginal secretions, fetal fibronectin 134–5
- vaginal speculum examination 191
- vaginosis, bacterial 6–7
- vasoactive intestinal peptide 30
- ventilated babies, surfactant therapy 111–12
- ventilation, maternal 239
- ventilation, mechanical 273–4
 - conventional 273–4
 - high-frequency oscillatory 273–4
 - human rights issues 387
 - pressure effects in neonate 267–8
 - pressure-cycled 273–4
 - withdrawal 379, 383
 - withholding 380
- very low birthweight babies
 - cognitive ability at school age 124
 - deaths 112–13
 - dyspraxia 123
 - home oxygen 120–1
 - oxygen dependency 120–1
 - racial characteristics 115
- viability 3
 - extremes 228
 - limits and multiple birth delivery 221
- viral infections 8
- vitamin supplements 293

Cambridge University Press
052182186X - Preterm Labour: Managing Risk in Clinical Practice
Edited by Jane Norman and Ian Greer
Index
[More information](#)

417

Index

- weighing

neonates 272, 277

see also birthweight

wheeze 122–3

white cell count 284–5

wrongful birth cases 352
- wrongful life actions 352–3, 355–6

Y-27632 Rho kinase inhibitor 161–2

young people, competence 343–5

zone of altered morphology (ZAM) 49–51