

## Contents

List of contributors ix

Preface xi

How to use your textbook xii

About the companion website xiii

### Part 1: Fertilisation 1

1 Principles of development 3

*Sam Webster*

2 The female reproductive system 12

*Sam Webster*

3 The male reproductive system 24

*Sam Webster*

4 Fertilisation 32

*Sam Webster*

5 Embryology: zygote to blastocyst 38

*Sam Webster*

6 Embryonic stem cells 43

*Sam Webster*

### Part 2: Pregnancy 49

7 Embryology 51

*Sam Webster*

8 Physiology of pregnancy 59

*Sam Webster*

9 Antenatal care 64

*Marion Beard*

10 Antenatal screening and prenatal diagnosis 71

*Alan Treharne and Marsham Mosehli*

11 Hypertensive disorders of pregnancy 82

*Sharif Ismail*

12 Diseases in pregnancy I 89

*Alan Treharne and Cerys Scarr*

13 Diseases in pregnancy II 94

*Alan Treharne, Cerys Scarr and Aleksandra Komarzyniec-Pyzik*

14 Multiple pregnancy and other antenatal complications 103

*Marion Beard*

15 Problems in late pregnancy 109

*Deepa Balachandran Nair*

16 Fetal growth and tests of fetal wellbeing 117

*Maitreyee Deshpande*

17 The eye in pregnancy and the newborn 122

*Colm McAlinden*

### Part 3: Birth 137

18 Normal labour 139

*Euan Kevelighan*

19 Abnormal labour 146

*Franz Majoko*

20 The puerperium 155

*Fran Hodge*

21 Obstetric emergencies 162

*Benjamin Chisholme and Euan Kevelighan*

### Part 4: Neonatology 173

22 Newborn resuscitation and newborn examination 175

*Nitin Goel and Jamie Evans*

23 Newborn feeding, jaundice and maternal diabetes 184

*Geraint Morris*

24 The preterm infant 189

*Nitin Goel*

25 Congenital and perinatal infection 196

*Ian Morris*

**Part 5: Childhood and adolescence 205**

26 History and examination in childhood 207

*Shabeena Webster and Geraint Morris*

27 Normal growth and developmental milestones 213

*Bethan Williams*

28 Developmental delay 241

*Bethan Williams*

29 Genetics 249

*Dana Beasley*

30 Neurodevelopmental disorders 256

*Surekha Tuohy*

31 Puberty 263

*Christopher Bidder*

32 Non-accidental injury and neglect 271

*Catrin Simpson*

33 Neurological problems 278

*Cathy White*

34 Infections and immunodeficiency 292

*Pramodh Vallabhaneni*

35 Haematology and oncology 299

*Pramodh Vallabhaneni*

36 Congenital and acquired heart disease 307

*Geraint Morris*

37 Metabolic and endocrine disorders 319

*Shabeena Webster*

38 Respiratory problems 333

*Toni Williams*

39 Gastroenterology, nutrition and faltering growth 341

*Lakshmipriya Selvarajan*

40 Renal and urinary problems 353

*Dana Beasley*

41 Dermatology 363

*Rebecca Balfour*

42 Rheumatology and orthopaedics 374

*Rebecca Balfour*

43 Paediatric surgery 385

*Toni Williams*

44 Paediatric pharmacology 391

*Lakshmipriya Selvarajan***Part 6: Gynaecology 395**

45 Problems in early pregnancy 397

*Manju Nair*

46 Subfertility 409

*Gurpreet Singh Kalra*

47 Vaginal discharge, pelvic pain and endometriosis 419

*Aisling Carroll-Downey and Euan Kevelighan*

48 Termination of pregnancy 428

*Sophie Walker and Jennifer Davies-Oliveira*

49 Contraception 433

*Ruth Frazer*

50 Obstetric and gynaecological operations 440

*Nisha Kadwadkar and Euan Kevelighan*

51 The menopause 448

*Kinza Younas*

Index 455