

# **Contents**

Preface to the third edition v Preface to the first edition v Acknowledgements v

### Anatomy and physiology 2

The bone marrow 2

Neutrophils, eosinophils, basophils and monocytes 6

The spleen 10

Red cells 4

Lymphocytes 8

Haemostasis 12

### The haematology patient 14

History taking 14

Examining the patient 16

Laboratory haematology I - Blood and bone

marrow 18

Laboratory haematology II - Coagulation and

the acute phase response 20

### Anaemia 22

Introduction and classification 22

Iron deficiency anaemia 24

Megaloblastic anaemia 26

Haemolytic anaemia I - General features and

inherited disorders 28

Haemolytic anaemia II - Acquired

disorders 30

The thalassaemias 32

Sickle cell syndromes 34

Anaemia of chronic disease 36

### Leukaemia 38

Introduction 38

Acute myeloid leukaemia 40

Acute lymphoblastic leukaemia 42

Chronic myeloid leukaemia 44

Chronic lymphocytic leukaemia 46

Other leukaemias 48

The myelodysplastic syndromes 50

Aplastic anaemia 52

Chemotherapy and related treatments 54

Stem cell transplantation 56

## Lymphoma and myeloma 58

Hodgkin's lymphoma 58

Non-Hodgkin's lymphoma 60

Myeloma 62

## Myeloproliferative disorders 64

Polycythaemia 64

Essential thrombocythaemia and

myelofibrosis 66

### Haemostasis and thrombosis 68

Thrombocytopenia 68

Disorders of platelet function and vascular

purpuras 70

Haemophilia 72

Von Willebrand's disease and other inherited

coagulation disorders 74

Acquired disorders of coagulation 76

Thrombophilia 78

Anticoagulation and thrombolytic

therapy 80

### Blood transfusion 82

Blood groups and blood testing 82

Clinical practice 84

## Special situations 86

The immunosuppressed patient 86

Pregnancy 88

Paediatric haematology 90

Palliative care in haematological malignancy **92** 

Systemic disease 94

The developing world 96

### Recent advances in haematology 98

Molecular biology 98

Potential advances in treatment 100

## Practical procedures 102

Venepuncture and venous access 102

Bone marrow aspiration and trephine

biopsy 104

Appendices 106

Index 108