Contents

Editors xii
Contributors xv
Reviewers xix
Abbreviations xxii
Acknowledgements xxi
Preface xxx

1 Adolescents and Young Adults with Cancer: The Pathway of Care 1
   Overview 1
   Definitions 2
   Particular Aspects of Cancer in AYAs 3
   The Pathway of Care for AYAs with Cancer 4
   Further Reading 9

2 The Unique Epidemiology of Cancer in Adolescents and Young Adults 12
   Overview 12
   Cancer Incidence and Main Cancer Types 13
   AYA Cancer Survival 18
   Cancer Mortality 23
   Aetiological Factors 24
   Conclusions 26
   Further Reading 27
<table>
<thead>
<tr>
<th>Chapter</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>3</strong> Psychosocial Screening and Assessment in Adolescents and Young Adults with Cancer: Process and Engagement Considerations</td>
</tr>
<tr>
<td><strong>Overview</strong></td>
</tr>
<tr>
<td><strong>Working with Young People – Some Essentials</strong></td>
</tr>
<tr>
<td><strong>Building Rapport</strong></td>
</tr>
<tr>
<td><strong>Who is in Control?</strong></td>
</tr>
<tr>
<td><strong>Sharing and Explaining Health Information</strong></td>
</tr>
<tr>
<td><strong>Working with AYAs’ Wider Circles of Support</strong></td>
</tr>
<tr>
<td><strong>Psychosocial Assessment and Care of AYA Patients</strong></td>
</tr>
<tr>
<td><strong>Screening</strong></td>
</tr>
<tr>
<td><strong>Planning Care</strong></td>
</tr>
<tr>
<td><strong>Assessment</strong></td>
</tr>
<tr>
<td><strong>Benefits of Systematic Psychosocial Screening, Assessment and Care Planning</strong></td>
</tr>
<tr>
<td><strong>Further Reading</strong></td>
</tr>
<tr>
<td><strong>4</strong> The Unique Molecular Biology and Cancer Genetics in Adolescents and Young Adults</td>
</tr>
<tr>
<td><strong>Overview</strong></td>
</tr>
<tr>
<td><strong>AYA Cancer: A Unique Composition of Diseases</strong></td>
</tr>
<tr>
<td><strong>Hereditary Syndromes and Genetic Risk</strong></td>
</tr>
<tr>
<td><strong>Genetic Counselling: What to Include</strong></td>
</tr>
<tr>
<td><strong>Genetic Counselling: Communication Skills</strong></td>
</tr>
<tr>
<td><strong>AYA Cancers Require Specific Genetic Tests</strong></td>
</tr>
<tr>
<td><strong>Molecular Testing is Necessary to Enable AYAs to Explore More Treatment Options</strong></td>
</tr>
<tr>
<td><strong>Further Reading</strong></td>
</tr>
<tr>
<td><strong>5</strong> Leukaemias in Adolescents and Young Adults</td>
</tr>
<tr>
<td><strong>Overview</strong></td>
</tr>
<tr>
<td><strong>Acute Lymphoblastic Leukaemia</strong></td>
</tr>
<tr>
<td><strong>Acute Myeloid Leukaemia</strong></td>
</tr>
<tr>
<td><strong>Chronic Myeloid Leukaemia</strong></td>
</tr>
<tr>
<td><strong>Late Effects</strong></td>
</tr>
<tr>
<td><strong>Conclusions</strong></td>
</tr>
<tr>
<td><strong>Further Reading</strong></td>
</tr>
</tbody>
</table>

**Contents**
6 Lymphomas in Adolescents and Young Adults 65
   Overview  65
   Epidemiology  66
   Hodgkin Lymphoma  66
   Non-Hodgkin Lymphoma  70
   Mature B-Cell Lymphomas  71
   Lymphoblastic Lymphoma  74
   Anaplastic Large-cell Lymphoma  75
   Conclusion  76
   Further Reading  76

7 Neuro-oncology in Adolescents and Young Adults: A Plea for Cooperation Between Paediatricians and Adult Clinicians 79
   Overview  79
   Epidemiology  80
   Clinical Features and Reasons for Delayed Diagnosis  82
   Biological Features and Genetic Abnormalities of AYA Brain Tumours  82
   Diagnostic Review and Treatment: A Multidisciplinary Approach  84
   Follow-up for Recurrence and Late Effects  85
   Conclusion  87
   Further Reading  88

8 Soft Tissue Sarcomas in Adolescents and Young Adults 90
   Overview  90
   Soft Tissue Sarcomas: A Challenging Epidemiology  91
   Possible Reasons for the Different Outcome According to Age  92
   Centralisation of Diagnosis and Treatment  93
   Delay in Diagnosis  94
   Need for Multi-professional Interdisciplinary Approach  95
   Current Treatment  95
   New Targeted Therapies  98
   After the End of the Therapies  98
   Conclusion  99
   Further Reading  100
12 Colorectal Cancer in Adolescents and Young Adults: Focus on Hereditary Syndromes

Overview 134
Genetic Predisposition for CRC 135
Hereditary CRC Syndromes 137
Non-cancerous Features Leading to the Genetic Diagnosis 139
Diagnostic Testing of Hereditary CRC 139
Conclusions 140
Further Reading 140

13 Juvenile Melanoma

Overview 142
Subtypes of Juvenile Melanoma 143
Predisposing Conditions 147
Clinical Features 148
Management of Juvenile Melanoma 148
Summary 153
Further Reading 153

14 Rare Tumours

Overview 156
Salivary Gland Carcinomas 159
Rare Gonadal Tumours 160
Liver Tumours 162
Pancreatic Tumours 164
Further Reading 166

15 Usual Medical Emergencies in Adolescents and Young Adults with Cancer

Overview 168
Febrile Neutropenia 169
Tumour Lysis Syndrome 170
Other Metabolic Disturbances 171
Intracranial Hypertension 172
Spinal Cord Compression 173
Superior Mediastinal Syndrome 174
## 19 Cancer Survivorship Issues and Lifestyle Interventions: Lessons Learnt from Long-term Childhood Cancer Survivors

- Overview
- Epidemiology of Childhood Cancer Survivorship
- Follow-up Care of Survivors
- Transition of Care from Child- to Adult-orientated Services
- Psychological Issues in AYA-aged Survivors
- Lifestyle Issues and Interventions in AYA-aged Survivors

## 20 Psychosocial Support of Adolescents and Young Adults with Cancer: Focus on Professional and Social Reintegration

- Overview
- Problems and Challenges of AYA Survivors
- Psychosocial Needs of AYA Survivors
- Psychosocial Interventions
- Follow-up for AYA Survivors

## 21 Increasing Access to Clinical Trials and Innovative Therapy for Adolescents and Young Adults with Cancer: The Importance of International Collaborative Networks

- Overview
- Towards a Safe Abolition of the 18 Years Dogma from Early Phase Drug Development
- Towards an Increased Biological Knowledge for More Molecular-driven Clinical Trials in the Era of Personalised Medicine
- Essential Multidisciplinary Centralised AYA-specialised Infrastructure to Facilitate Early Access to Clinical Trials

## Index
ESMO Members belong to a global community of over 25,000 oncology professionals. Membership provides you many other benefits, including:

- **Full access to ESMO educational and scientific resources**, all centralised on our portal OncologyPRO
- An **online subscription to Annals of Oncology**
- A wide range of **exclusive courses and learning opportunities** for every stage of your career
- **Reduced registration fees** for ESMO meetings

If you are an ESMO Member, simply log in to your account to **download the complete book** along with over 20 other titles on a broad range of topics - all of them written to assist you in your daily practice.

If not an ESMO Member, then consider joining!

Discover more and join ESMO today!