# Brief table of contents

*Detailed table of contents*  
*Foreword*  
*Acknowledgements*  
*List of contributors*  
*List of abbreviations*  
*Quick reference to the procedure guidelines*  
*How to use your manual*  
*Introduction*

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Diagnostic investigations</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>Haematological procedures</td>
<td>57</td>
</tr>
<tr>
<td>3</td>
<td>Cancer pain assessment and management</td>
<td>91</td>
</tr>
<tr>
<td>4</td>
<td>Administration of systemic anticancer therapies</td>
<td>131</td>
</tr>
<tr>
<td>5</td>
<td>Radionuclide therapy</td>
<td>201</td>
</tr>
<tr>
<td>6</td>
<td>Wound management</td>
<td>227</td>
</tr>
<tr>
<td>7</td>
<td>Acute oncology</td>
<td>253</td>
</tr>
<tr>
<td>8</td>
<td>Living with and beyond cancer</td>
<td>311</td>
</tr>
<tr>
<td>9</td>
<td>End of life care</td>
<td>403</td>
</tr>
</tbody>
</table>

*Index*  
419
Detailed table of contents

# Foreword

# Acknowledgements

# List of contributors

# List of abbreviations

# Quick reference to the procedure guidelines

# How to use your manual

# Introduction

## 1 Diagnostic investigations

### Overview

### Diagnostic tests and investigations

### Tumour markers

### Cervical uterine smear

### Diagnostic radioisotope procedures (nuclear medicine)

### Transrectal ultrasound (TRUS) prostate biopsy

### Flexible cystoscopy

### Breast diagnostics

### Clinical breast examination

### Core biopsy

### Breast fine-needle aspiration (FNA)

### Breast punch biopsy

### Nipple discharge smear

### Genetic testing

### Websites

### References

### Procedure guidelines for Chapter 1

1.1 Cervical uterine smear using liquid-based cytology

1.2 Unsealed radioactive sources for diagnostic investigations

1.3 Transrectal ultrasound (TRUS) prostate biopsy

1.4 Flexible cystoscopy

1.5 Flexible cystoscopy with stent removal

1.6 Flexible cystoscopy with bladder biopsy

1.7 Flexible cystoscopy with argon plasma coagulation (APC)/cystodiathermy

1.8 Clinical breast examination

1.9 Core breast biopsy

1.10 Breast fine-needle aspiration (FNA)

1.11 Breast punch biopsy

1.12 Nipple discharge smear

## 2 Haematological procedures

### Overview

### Bone marrow procedures

### Aspiration and trephine biopsy

### Bone marrow harvest

### Apheresis

### Ribavirin administration

### Pentamidine isetionate administration

### Websites

### References

### Procedure guidelines for Chapter 2

2.1 Bone marrow aspiration and trephine biopsy

2.2 Bone marrow harvest

2.3 Apheresis

2.4 Ribavirin administration

2.5 Pentamidine isetionate administration

## 3 Cancer pain assessment and management

### Overview

### Cancer pain assessment and management

### Pain management

### Acupuncture

### Interventional techniques for managing complex cancer-related pain

### Single nerve blocks and injections

### Regional peripheral and plexus nerve blocks and infusions

### Neuaxial (spinal) blocks: epidural and intrathecal analgesia

### Entonox (nitrous oxide) administration

### References

### Procedure guidelines for Chapter 3

3.1 Acupuncture: preparation and administration

3.2 Epidural/intrathecal sensory blockade: assessment

3.3 Epidural/intrathecal exit site dressing change

3.4 Epidural/intrathecal catheter removal

3.5 Entonox administration

## 4 Administration of systemic anticancer therapies

### Overview

### Systemic anticancer treatment

### Safe handling of hazardous drugs

### Administration of cytotoxic medications by nurses

### Intravenous administration of systemic anticancer therapy

### Extravasation

### Oral administration of systemic anticancer therapy

### Intramuscular and subcutaneous administration of cytotoxic drugs

### Topical application of cytotoxic drugs

### Intrathecal administration of cytotoxic drugs

### Intrapleural instillation of cytotoxic drugs
### Intravesical instillation of cytotoxic drugs

Page 169

### Intraperitoneal instillation of cytotoxic drugs

Page 172

### Intra-arterial administration of cytotoxic drugs

Page 173

### Side-effects of chemotherapy

- Haematological side-effects
- Fatigue
- Gastrointestinal side-effects
- Adverse drug reactions
- Neurotoxicity
- Mucositis/stomatitis
- Nephrotoxicity/haemorrhagic cystitis
- Cardiotoxicity
- Pulmonary toxicity
- Hepatotoxicity
- Skin toxicities
- Alopecia

Page 175

### Clinical research

Page 184

### Procedure guidelines for Chapter 4

- Cytotoxic spillage management
- Cytotoxic therapy: intravenous administration of cytotoxic drugs
- Extravasation management: peripheral cannula
- Extravasation: performing flush-out following an extravasation
- Cytotoxic therapy: education for patients on oral cytotoxic drugs
- Cytotoxic therapy: intramuscular administration of cytotoxic drugs (Z-track)
- Cytotoxic therapy: topical application of cytotoxic drugs
- Cytotoxic therapy: intraventricular administration of cytotoxic drugs via an intraventricular access device (Ommaya reservoir)
- Cytotoxic therapy: intrapleural instillation of cytotoxic drugs
- Cytotoxic therapy: intravesical instillation of cytotoxic drugs
- Intra-arterial administration of cytotoxic drugs
- Scalp cooling

Page 135

### Procedure guidelines for Chapter 5

- Radiation protection: major spillage of radioactive body fluids through incontinence and/or vomiting
- Radiation protection: contamination of bare hands by radioactive body fluids
- Radiation protection: death of a patient who has received unsealed radioactive source therapy

Page 204

### Procedure guidelines for Chapter 6

- Radiation protection: cardiac arrest of a patient who has received unsealed radioactive source therapy
- Radiation protection: evacuation due to fire of patients who have received unsealed radioactive source therapy
- Unsealed source therapy: entering and leaving the room of a patient who has received an unsealed radioactive source
- Unsealed source therapy: iodine-131 (oral capsule/liquid): administration
- Unsealed source therapy: iodine-131 mIBG treatment: patient care
- Sealed source therapy: caesium sources (manual or afterloading): patient care
- Sealed source therapy: low dose-rate Selectron treatment
- Sealed source therapy: Selectron applicator removal
- Sealed source therapy: insertion of sealed radioactive sources into the oral cavity

Page 205

### Procedure guidelines for Chapter 5

- Radiation protection: evacuation due to fire of patients who have received unsealed radioactive source therapy

Page 206

### Procedure guidelines for Chapter 6

- Radiation protection: evacuation due to fire of patients who have received unsealed radioactive source therapy

Page 208

### Procedure guidelines for Chapter 5

- Radiation protection: evacuation due to fire of patients who have received unsealed radioactive source therapy

Page 209

### Procedure guidelines for Chapter 6

- Radiation protection: evacuation due to fire of patients who have received unsealed radioactive source therapy

Page 216

### Procedure guidelines for Chapter 6

- Radiation protection: evacuation due to fire of patients who have received unsealed radioactive source therapy

Page 217

### Procedure guidelines for Chapter 6

- Radiation protection: evacuation due to fire of patients who have received unsealed radioactive source therapy

Page 218

### Procedure guidelines for Chapter 6

- Radiation protection: evacuation due to fire of patients who have received unsealed radioactive source therapy

Page 221

### 5 Radionuclide therapy

- Overview
- Radiation
- Radiation protection
- Unsealed source therapy
- Sealed source therapy
- Sealed source iodine-125 seeds used in prostate malignancies
- Intraoral sealed sources

Page 201

### Procedure guidelines for Chapter 5

- Radiation protection: major spillage of radioactive body fluids through incontinence and/or vomiting
- Radiation protection: contamination of bare hands by radioactive body fluids
- Radiation protection: death of a patient who has received unsealed radioactive source therapy

Page 204

### Radionuclide therapy

- Overview
- Radiation
- Radiation protection
- Unsealed source therapy
- Sealed source therapy
- Sealed source iodine-125 seeds used in prostate malignancies
- Intraoral sealed sources

Page 201

### Procedure guidelines for Chapter 5

- Radiation protection: major spillage of radioactive body fluids through incontinence and/or vomiting
- Radiation protection: contamination of bare hands by radioactive body fluids
- Radiation protection: death of a patient who has received unsealed radioactive source therapy

Page 204

### Procedure guidelines for Chapter 5

- Radiation protection: major spillage of radioactive body fluids through incontinence and/or vomiting
- Radiation protection: contamination of bare hands by radioactive body fluids
- Radiation protection: death of a patient who has received unsealed radioactive source therapy

Page 205

### Procedure guidelines for Chapter 5

- Radiation protection: major spillage of radioactive body fluids through incontinence and/or vomiting
- Radiation protection: contamination of bare hands by radioactive body fluids
- Radiation protection: death of a patient who has received unsealed radioactive source therapy

Page 205

### Procedure guidelines for Chapter 6

- Radiation protection: evacuation due to fire of patients who have received unsealed radioactive source therapy

Page 206

### Procedure guidelines for Chapter 6

- Radiation protection: evacuation due to fire of patients who have received unsealed radioactive source therapy

Page 208

### Procedure guidelines for Chapter 6

- Radiation protection: evacuation due to fire of patients who have received unsealed radioactive source therapy

Page 209

### Procedure guidelines for Chapter 6

- Radiation protection: evacuation due to fire of patients who have received unsealed radioactive source therapy

Page 216

### Procedure guidelines for Chapter 6

- Radiation protection: evacuation due to fire of patients who have received unsealed radioactive source therapy

Page 217

### Procedure guidelines for Chapter 6

- Radiation protection: evacuation due to fire of patients who have received unsealed radioactive source therapy

Page 218

### Procedure guidelines for Chapter 6

- Radiation protection: evacuation due to fire of patients who have received unsealed radioactive source therapy

Page 221

### 6 Wound management

- Overview
- Malignant fungating wounds
- Wound assessment
- Treatment options
- Principles of the management of dressings for a malignant fungating wound
- Local wound management
- Graft-versus-host disease wounds
- Definition
- Skin care following radiotherapy

Page 227

### Procedure guidelines for Chapter 6

- Assessing a malignant fungating wound
- Dressing a malignant fungating wound

Page 228

### Procedure guidelines for Chapter 6

- Assessing a malignant fungating wound
- Dressing a malignant fungating wound

Page 231

### Procedure guidelines for Chapter 6

- Assessing a malignant fungating wound
- Dressing a malignant fungating wound

Page 243

### 7 Acute oncology

- Overview
- Haematological emergencies
- Central venous access device complications
- Thrombosis (catheter related)
- Sepsis
- Major artery rupture
- Superior vena cava obstruction
- Metabolic emergencies
- Hypercalcaemia of malignancy
- Hypomagnesaemia
- Side-effects from chemotherapy agents
- Diarrhoea (chemotherapy and radiotherapy induced)
- Nausea and vomiting
- Neutropenic sepsis
- Pneumonitis
- Structural
- Ascites (malignant)
- Bowel obstruction (malignant)
- Metastatic spinal cord compression
- Pericardial effusion (malignant)
- Raised intracranial pressure due to malignant disease

Page 253

### Procedure guidelines for Chapter 5

- Radiation protection: evacuation due to fire of patients who have received unsealed radioactive source therapy

Page 254

### Procedure guidelines for Chapter 6

- Radiation protection: evacuation due to fire of patients who have received unsealed radioactive source therapy

Page 255

### Procedure guidelines for Chapter 6

- Radiation protection: evacuation due to fire of patients who have received unsealed radioactive source therapy

Page 259

### Procedure guidelines for Chapter 6

- Radiation protection: evacuation due to fire of patients who have received unsealed radioactive source therapy

Page 260

### Procedure guidelines for Chapter 6

- Radiation protection: evacuation due to fire of patients who have received unsealed radioactive source therapy

Page 261

### Procedure guidelines for Chapter 6

- Radiation protection: evacuation due to fire of patients who have received unsealed radioactive source therapy

Page 262

### Procedure guidelines for Chapter 6

- Radiation protection: evacuation due to fire of patients who have received unsealed radioactive source therapy

Page 264

### Procedure guidelines for Chapter 6

- Radiation protection: evacuation due to fire of patients who have received unsealed radioactive source therapy

Page 266

### Procedure guidelines for Chapter 6

- Radiation protection: evacuation due to fire of patients who have received unsealed radioactive source therapy

Page 271

### Procedure guidelines for Chapter 6

- Radiation protection: evacuation due to fire of patients who have received unsealed radioactive source therapy

Page 277

### Procedure guidelines for Chapter 6

- Radiation protection: evacuation due to fire of patients who have received unsealed radioactive source therapy

Page 280

### Procedure guidelines for Chapter 6

- Radiation protection: evacuation due to fire of patients who have received unsealed radioactive source therapy

Page 281

### Procedure guidelines for Chapter 6

- Radiation protection: evacuation due to fire of patients who have received unsealed radioactive source therapy

Page 287

### Procedure guidelines for Chapter 6

- Radiation protection: evacuation due to fire of patients who have received unsealed radioactive source therapy

Page 289

### Procedure guidelines for Chapter 6

- Radiation protection: evacuation due to fire of patients who have received unsealed radioactive source therapy

Page 301

### Procedure guidelines for Chapter 6

- Radiation protection: evacuation due to fire of patients who have received unsealed radioactive source therapy

Page 302

### Procedure guidelines for Chapter 6

- Radiation protection: evacuation due to fire of patients who have received unsealed radioactive source therapy

Page 303
8 Living with and beyond cancer

Overview

Section 8.1 Introduction
The experience of living with or beyond cancer

Section 8.2 Welfare advice
Overview
Websites
Useful addresses

Section 8.3 Supporting individuals with sexual concerns as a consequence of cancer
Women’s sexual concerns following cancer
Interventions
Men’s sexual concerns following cancer
Interventions
Websites

Section 8.4 Nutritional status
Websites

Section 8.5 Compression therapy in the management of lymphoedema
Lymphoedema
Assessment of the patient with lymphoedema and calculation of limb volume
Compression bandaging
Compression garments
Adjustable wrap compression systems
Websites

Section 8.6 Non-pharmacological management of breathlessness
Non-pharmacological support
Websites

Section 8.7 Physical activity for people with cancer
Websites

Section 8.8 Cancer-related fatigue and sleep
Cancer-related fatigue
Sleep

Section 8.9 Communication for a patient with a laryngectomy
Websites and useful addresses

9 End of life care

Overview

Last Offices
Websites and useful addresses
Online resources

References

Procedure guideline for Chapter 9

Index