
Contents

List of Abbreviations *xvii*

List of Contributors *xxi*

SECTION 1

The worldwide status of palliative care *1*

1.1 International progress in creating palliative medicine as a specialized discipline and the development of palliative care *3*

Sheila Payne and Tom Lynch

1.2 Providing palliative care in economically disadvantaged countries *10*

M.R. Rajagopal and Reena George

1.3 Essential medicines for palliative care *19*

Liliana De Lima, Lukas Radbruch, and Eduardo Bruera

1.4 Policy in palliative care *25*

David C. Currow and Stein Kaasa

SECTION 2

The challenge of palliative medicine *33*

2.1 The problem of suffering and the principles of assessment in palliative medicine *35*

Nathan I. Cherny

2.2 The epidemiology of death and symptoms: planning for population-based palliative care *49*

Megan B. Sands, Dianne L. O'Connell, Michael Piza, and Jane M. Ingham

2.3 Predicting survival in patients with advanced disease *65*

Paul Glare, Christian T. Sinclair, Patrick Stone, and Josephine M. Clayton

2.4 Defining a 'good' death *77*

Karen E. Steinhauser and James A. Tulsky

2.5 Ethnic and cultural aspects of palliative care *84*

LaVera Crawley and Jonathan Koffman

2.6 The economic challenges of palliative medicine *93*

Thomas J. Smith and J. Brian Cassel

SECTION 3

Service delivery issues in palliative care *103*

3.1 Barriers to the delivery of palliative care *105*

Barry J.A. Laird

3.2 Palliative care delivery models *112*

Irene J. Higginson

3.3 Palliative care in the emergency department *117*

Paul L. DeSandre and Karen May

3.4 Palliative care in the nursing home *125*

Jane L. Phillips, Annmarie Hosie, and Patricia M. Davidson

SECTION 4

The interdisciplinary team *137*

4.1 The core team and the extended team *139*

Dagny Faksvåg Haugen, Friedemann Nauck, and Augusto Caraceni

4.2 Teaching and training in palliative medicine *146*

Karen Forbes and Jane Gibbins

4.3 Nursing and palliative care *154*

Deborah Witt Sherman and David C. Free

4.4 Social work in palliative care *164*

Terry Altilio and Nina Laing

- 4.5 The role of the chaplain in palliative care** 170
George Handzo and Christina M. Puchalski
- 4.6 Occupational therapy in palliative care** 177
Jill Cooper and Nina Kite
- 4.7 Music therapy in palliative care** 184
Clare O'Callaghan
- 4.8 The contribution of the dietitian and nutritionist to palliative medicine** 191
Rosemary Richardson and Isobel Davidson
- 4.9 Physiotherapy in palliative care** 197
Anne M. English
- 4.10 Speech and language therapy in palliative care** 202
Tim Luckett and Katherine L.P. Reid
- 4.11 The contribution of art therapy to palliative medicine** 210
Michèle J.M. Wood
- 4.12 Stoma therapy in palliative care** 216
Jane Ellen Barr
- 4.13 Clinical psychology in palliative care** 221
Anja Mehnert
- 4.14 The contribution of the clinical pharmacist in palliative care** 228
Margaret Gibbs
- 4.15 Medical rehabilitation and the palliative care patient** 236
Deborah Julie Franklin and Andrea L. Cheville
- 4.16 Burnout, compassion fatigue, and moral distress in palliative care** 246
Nathan I. Cherny, Batsheva Werman, and Michael Kearney
- 4.17 Integrative oncology in palliative medicine** 260
Gary Deng and Barrie R. Cassileth

SECTION 5

Ethical issues 271

- 5.1 Human rights issues** 273
Frank Brennan and Liz Gwyther
- 5.2 Confidentiality** 279
Timothy W. Kirk
- 5.3 Neuro-palliative care and disorders of consciousness** 285
Joseph J. Fins and Barbara Pohl
- 5.4 Truth telling and consent** 292
Linda L. Emanuel and Rebecca Johnson

- 5.5 Ethics in paediatric palliative care** 300
Richard D.W. Hain
- 5.6 Dignity and palliative end-of-life care** 306
Harvey Max Chochinov, Susan E. McClement, and Maia S. Kredentser
- 5.7 Euthanasia and palliative care** 314
Lars Johan Materstedt and Georg Bosshard
- 5.8 Withholding and withdrawing life-sustaining treatment (including artificial nutrition and hydration)** 323
Danielle N. Ko and Craig D. Blinderman

SECTION 6

Communication and palliative medicine 335

- 6.1 Communication with the patient and family** 337
Thomas W. LeBlanc and James A. Tulsky
- 6.2 Talking with families and children about the death of a parent** 345
Mari Lloyd-Williams and Jackie Ellis
- 6.3 Communication between professionals** 351
Jane deLima Thomas, Katie Fitzgerald Jones, Amanda Moment, and Janet L. Abraham
- 6.4 Communications with the public, politicians, and the news media** 357
Barry R. Ashpole

SECTION 7

Assessment tools and informatics 361

- 7.1 Palliative care needs assessment tools** 363
Afaf Girgis and Amy Waller
- 7.2 The measurement of, and tools for, pain and other symptoms** 376
Jane M. Ingham, Helen M. Moore, Jane L. Phillips, and Russell K. Portenoy
- 7.3 Informatics and literature search** 391
Jennifer J. Tieman and David C. Currow
- 7.4 Validated assessment tools for psychological, spiritual, and family issues** 398
Linda L. Emanuel, Richard A. Powell, George Handzo, Kelly Nichole Michelson, and Lara Dhingra

SECTION 8

Common symptoms and disorders 407

- 8.1 Fatigue and asthenia 409**
Sriram Yennurajalingam and Eduardo Bruera
- 8.2 Dyspnoea and other respiratory symptoms in palliative care 421**
Kin-Sang Chan, Doris M.W. Tse, and Michael M.K. Sham
- 8.3 Anaemia, cytopenias, and thrombosis in palliative medicine 435**
Nancy Y. Zhu and Cynthia Wu
- 8.4 Genitourinary aspects of palliative care 441**
Olivia T. Lee, Jennifer N. Wu, Frederick J. Meyers, and Christopher P. Evans
- 8.5 Oral care 447**
Andrew N. Davies
- 8.6 Sleep disorders 457**
Kyriaki Mystakidou, Irene Panagiotou, Efi Parpa, and Eleni Tsilika
- 8.7 The management of bleeding in palliative care 467**
Jose Pereira and Jennifer Brodeur
- 8.8 Sexual dysfunction: discussing patient sexuality and intimacy in palliative care 480**
Amanda Hordern

SECTION 9

Common symptoms and disorders: pain 491

- 9.1 Principles of drug therapy: focus on opioids 493**
Ruth Branford, Emily Wighton, and Joy Ross
- 9.2 Pathophysiology of pain in cancer and other terminal illnesses 506**
Richard M. Gordon-Williams and Anthony H. Dickenson
- 9.3 Definition and assessment of chronic pain in advanced disease 519**
Clare Rayment and Michael I. Bennett
- 9.4 Opioid therapy: optimizing analgesic outcomes 525**
Marie T. Fallon and Nathan I. Cherny
- 9.5 Opioid therapy: managing risks of abuse, addiction, and diversion 560**
Julie R. Price, Alric D. Hawkins, and Steven D. Passik
- 9.6 Non-opioid analgesics 567**
Per Sjøgren, Frank Elsner, and Stein Kaasa

9.7 Adjuvant analgesics 577

David Lussier and Russell K. Portenoy

9.8 Interventional approaches for chronic pain 589

Robert A. Swarm, Menelaos Karanikolas, Lesley K. Rao, and Michael J. Cousins

9.9 Neurostimulation in pain management 599

Joy Hao, Rae Lynne Kinler, Eliezer Soto, Helena Knotkova, and Ricardo A. Cruciani

9.10 Rehabilitation medicine approaches to pain management 606

Andrea L. Cheville and Jeffrey R. Basford

9.11 Psychological and psychiatric interventions in pain control 614

Julie R. Price, Alric D. Hawkins, Michael L. Adams, William S. Breitbart, and Steven D. Passik

9.12 Complementary therapies in pain management 628

Gary Deng and Barrie R. Cassileth

9.13 Paediatric pain control 632

Renée McCulloch and John J. Collins

SECTION 10

Common symptoms and disorders: gastrointestinal symptoms 649

10.1 Dysphagia, dyspepsia, and hiccup 651

Katherine Clark

10.2 Palliation of nausea and vomiting 661

Janet R. Hardy, Paul Glare, Patsy Yates, and Kathryn A. Mannix

10.3 Constipation and diarrhoea 675

Nigel P. Sykes

10.4 Jaundice, ascites, and encephalopathy 686

Jeremy Keen

10.5 Aetiology, classification, assessment, and treatment of the anorexia-cachexia syndrome 702

Vickie E. Baracos, Sharon M. Watanabe, and Kenneth C.H. Fearon

SECTION 11

Common symptoms and disorders: skin problems 713

11.1 Skin problems in palliative care 715

Patricia Grocott, Georgina Gethin, and Sebastian Probst

11.2 Pruritus and sweating in palliative medicine 724

Mark R. Pittelkow, Charles L. Loprinzi,
and Thomas P. Pittelkow

11.3 Lymphoedema 740

Vaughan Keeley

SECTION 12**Issues in populations with cancer 747****12.1 The oncologist's role in delivering palliative care 749**

Nathan I. Cherny and Stein Kaasa

12.2 Disease-modifying therapies in advanced cancer 765

Dirk Schrijvers

12.3 Radiotherapy in symptom management 771

Peter J. Hoskin

12.4 The role of general surgery in the palliative care of patients with cancer 790

Brian Badgwell and Robert S. Krouse

12.5 Orthopaedic surgery in the palliation of cancer 799

John H. Healey and David McKeown

12.6 Interventional radiology in the palliation of cancer 807

Tarun Sabharwal, Nicos I. Fotiadis, and Andy Adam

SECTION 13**Cancer pain syndromes 817****13.1 Cancer pain syndromes: overview 819**

Nathan I. Cherny

13.2 Cancer-induced bone pain 841

Lesley A. Colvin and Marie T. Fallon

13.3 Management issues in neuropathic pain 860

Nanna Brix Finnerup and Troels Staehelin Jensen

13.4 Visceral pain 867

Victor T. Chang

13.5 Management issues in chronic pain following cancer therapy 875

Martin Chasen and Gordon Giddings

SECTION 14**Cancer-associated disorders 883****14.1 Neurological problems in advanced cancer 885**

Augusto Caraceni, Cinzia Martini, and Fabio Simonetti

14.2 Endocrine and metabolic complications of advanced cancer 906

Mark Bower, Louise Robinson, and Sarah Cox

14.3 Bowel obstruction 919

Carla I. Ripamonti, Alexandra M. Easson, and Hans Gerdes

14.4 Skin problems in oncology 930

Sharon Merims and Michal Lotem

14.5 Palliative issues in the care of patients with cancer of the head and neck 940

Barbara A. Murphy, Lauren A. Zatarain, Anthony J. Cmelak, Steven Bayles, Ellie Dowling, Cheryl R. Billante, Sheila Ridner, Kirsten Haman, Stewart Bond, Anne Marie Flores, Wisawatapnimit Panarut, and Bethany M. Andrews

SECTION 15**Issues in populations with non-cancer illnesses 953****15.1 HIV/AIDS 955**

Meera Pahuja, Jessica S. Merlin, and Peter A. Selwyn

15.2 Caring for the patient with advanced chronic obstructive pulmonary disease 969

Graeme M. Rocker, Joanne Michaud-Young, and Robert Horton

15.3 Advanced heart disease 979

Steven Z. Pantilat, Anthony E. Steimle, and Patricia M. Davidson

15.4 Dementia 990

Eric Widera and Rachelle Bernacki

15.5 Neurological disorders other than dementia 997

Raymond Voltz, Stefan Lorenzl, and Georg S. Nübling

15.6 End-stage kidney disease 1004

Fliss E. M. Murtagh

15.7 Palliative medicine in the intensive care unit 1013

Nathan I. Cherny, Sharon Einav, and David Dahan

SECTION 16**Issues of the very young and the very old 1023****16.1 Talking with families and children about the death of a parent 1025**

Anna C. Muriel and Paula K. Rauch

16.2 Care of children with advanced illness 1031

John J. Collins, Kirsty Campbell, Wendy Edmonds, Judith Frost, Martha F. Mherekumombe, and Natasha Samy

16.3 Palliative medicine and care of the elderly 1044

Meera Agar and Jane L. Phillips

SECTION 17**Psychosocial and spiritual issues in palliative medicine 1057****17.1 Spiritual issues in palliative medicine 1059**

Susan E. McClement

17.2 Coping in palliative medicine 1067

Simon Wein and Lea Baider

17.3 Depression, demoralization, and suicidality 1074

David W. Kissane and Matthew Doolittle

17.4 Adjustment disorders and anxiety 1085

Simon Wein and Limor Amit

17.5 Delirium 1092

Meera Agar, Yesne Alici, and William S. Breitbart

17.6 The family perspective 1101

Carrie Lethborg and David W. Kissane

17.7 Bereavement 1110

David W. Kissane and Talia I. Zaider

SECTION 18**The terminal phase 1123****18.1 Management of the actively dying patient 1125**

Judith Lacey

18.2 Sedation at the end of life 1134

Eric L. Krakauer

SECTION 19**Research in palliative medicine 1143****19.1 Research in palliative care 1145**

Stein Kaasa and Karen Forbes

19.2 The principles of evidence-based medicine 1155

Amy P. Abernethy

19.3 Understanding clinical trials in palliative care research 1167

John T. Farrar

19.4 Qualitative research 1176

Kate Flemming

19.5 Research into psychosocial issues 1182

David W. Kissane, Annette F. Street, Erin E. Schweers, and Thomas M. Atkinson

19.6 Ethical issues in palliative care research 1194

David Casarett

19.7 Quality of life in palliative care: principles and practice 1198

Stein Kaasa and Jon Håvard Loge

19.8 Health services research in palliative care and end-of-life care 1210

Tinne Smets and Luc Deliens

19.9 Clinical audit in palliative medicine 1215

Irene J. Higginson

Index 1229