BIBLIOGRAPHY

Contents

Chapter 1. Early Days 2

Chapter 2. Working with Patients' Families 10

Chapter 3. Spiritual Care in Palliative Care 15

Chapter 4. Sexuality, Intimacy, and Cancer 20

Chapter 5. Advancing Disease 27

Chapter 6. Assessing the Patient in Pain 29

Chapter 7. Pharmacologic Management of Cancer Pain 35

Chapter 8. Nonpharmacologic Strategies in Palliative Care 61

Chapter 9. Psychological Considerations 71

Chapter 10. Managing Other Distressing Problems 77

Chapter 11. Approaching the End 97

Chapter 12. The Last Days 105

Chapter 13. Bereavement 110

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Chapter 1. Early Days

Acquaviva KD. 2017. LGBTQ-Inclusive Hospice and Palliative Care: A Practical Guide to Transforming Professional Practice. New York: Harrington Park Press.

Back AL, Arnold RM, Tulsky JA, et al. 2003. Teaching communication skills to medical oncology fellows. J Clin Oncol 21:2433–36.

Back A, Arnold R, Tulsky J, with contributions by Fryer-Edwards K and Baile W. 2009. Mastering Communication with Seriously Ill Patients: Balancing Honesty and Empathy with Hope. New York: Cambridge University Press.

Back AL, Bauer-Wu SM, Rushton CH, et al. 2009. Compassionate silence in the patient-clinician encounter: A contemplative approach. J Pall Med 12:1113–17.

Back AL, Fromme EK, Meier DE. 2019. Training clinicians with communication skills needed to match medical treatments to patient values. J Am Geriatr Soc 67:S435–S441.

Bernacki RE, Block SD. 2014. Communication about serious illness care goals: A review and synthesis of best practices. JAMA Intern Med 174:1994–2003.

Bernacki R, Paladino J, Neville BA, et al. 2019. Effect of the serious illness care program in outpatient oncology: A cluster randomized clinical trial. JAMA Intern Med 179:751–59.

Bridges JFP, Lynch T, Schuster ALR, et al. 2018. A review of paper-based advance care planning aids. BMC Palliat Care 17:54.

Brinkman-Stoppelenburg A, Rietjens JAC, van der Heide A. 2014. The effects of advance care planning on end-of-life care: A systematic review. Palliat Med 28:1000–1025.

Bruckel JT, Wong SL, Chan PS, et al. 2017. Patterns of resuscitation care and survival after in-hospital cardiac arrest in patients with advanced cancer. J Oncol Pract 13:e821–e830.

Bruera E, Palmer JL, Pace E, et al. 2007. A randomized, controlled trial of physician postures when breaking bad news to cancer patients. Palliat Med 21:501–5.

Buckman R. 1992. How to Break Bad News: A Guide for Health Care Professionals. Baltimore: Johns Hopkins University Press.

Callahan D. 1993. The Troubled Dream of Life. New York: Simon and Schuster.

Cassell EJ. 1999. Diagnosing suffering: A perspective. Ann Intern Med 131:531–34.

Cherny NI. 2012. Controversies in oncologist-patient communication: A nuanced approach to autonomy, culture, and paternalism. Oncology 26:37–43.

© 2022 Johns Hopkins University Press

Detering KM, Hancock AD, Reade MC, et al. 2010. The impact of advance care planning on end of life care in elderly patients: Randomised controlled trial. BMJ 340:c1345.

Diem SJ, Lantos JD, Tulsky JA. 1996. Cardiopulmonary resuscitation on television: Miracles and misinformation. N Engl J Med 334:1578–82.

Downey L, Au DH, Curtis JR, et al. 2013. Life-sustaining treatment preferences: Matches and mismatches between patients' preferences and clinicians' perceptions. J Pain Symptom Manage 46:9–19.

Emanuel LL, Danis M, Pearlman RA, et al. 1995. Advance care planning as a process: Structuring the discussions in practice. J Am Geriatr Soc 43:440–46.

Figley CR, ed. 1995. Compassion Fatigue: Coping with Secondary Traumatic Stress in Those Who Treat the Traumatized. London: Brunner-Routledge.

Fine RL. 2010. Keeping the patient at the center of patient- and family-centered care. J Pain Symptom Manage 40:621–25.

Five Wishes. 2020. "Five Wishes Advance Directive." Accessed April 28, 2020. https://fivewishes.org/shop/order/product/five-wishes-advance-directive.

Fumis RRL, Junqueira Amarante GA, de Fátima Nascimento A, et al. 2017. Moral distress and its contribution to the development of burnout syndrome among critical care providers. Ann Intensive Care 7:71.

Gawande A. 2014. Being Mortal: Medicine and What Matters in the End. New York: Picador.

Gilligan T, Coyle N, Frankel RM, et al. 2017. Patient-clinician communication: American Society of Clinical Oncology consensus guideline. J Clin Oncol 35:3618–32.

Gilligan T, Bohlke K, Baile WF. 2018. Patient-clinician communication: American Society of Clinical Oncology consensus guideline summary. J Onc Practice 14:42–46.

Greer JA, Jacobs JM, El-Jawahri A, et al. 2018. Role of patient coping strategies in understanding the effects of early palliative care on quality of life and mood. J Clin Oncol 36:53–60.

Gries CJ, Engelberg RA, Kross EK, et al. 2010. Predictors of symptoms of post-traumatic stress disorder and depression in family members after patient death in the ICU. Chest 137:280–87.

Groopman J. 1997. The Measure of Our Days: New Beginnings at Life's End. New York: Viking Penguin.

Haines L, Rahman OK, Sanders JJ, et al. 2019. Factors that impact family perception of goal-concordant care at the end of life. J Palliat Med 22:927–32.

© 2022 Johns Hopkins University Press

Institute of Medicine. 2014. Dying in America: Improving Quality and Honoring Individual Preferences Near the End of Life. Washington, DC: National Academies Press.

Jia Z, Leiter RE, Yeh IM, et al. 2020. Toward culturally tailored advance care planning for the Chinese diaspora: An integrative systematic review. J Palliat Med 23:1662–67.

Kagawa-Singer M, Kassim-Lakha S. 2003. A strategy to reduce cross-cultural miscommunication and increase the likelihood of improving health outcomes. Acad Med 78:577–87.

Keating NL, Landrum MB, Rogers SO, et al. 2010. Physician factors associated with discussions about end-of-life care. Cancer 116:998–1006.

Kon AA, Davidson JE, Morrison W, et al. 2016. Shared decision making in ICUs: An American College of Critical Care Medicine and American Thoracic Society policy statement. Crit Care Med 44:188–201.

Kottek SS. 2011. Toward becoming an accomplished physician: Maimonides versus Galen.

Rambam Maimonides Med J 2:e0060.

Kübler Ross E. 1969. On Death and Dying. New York: Macmillan.

Lamont EB, Siegler M. 2000. Paradoxes in cancer patients' advance care planning. J Palliat Med 3:27–35.

Mack JW, Cronin A, Keating NL, et al. 2012. Associations between end-of-life discussion characteristics and care received near death: A prospective cohort study. J Clin Oncol 30:4387–95.

Mack JW, Cronin A, Taback N, et al. 2012. End-of-life care discussions among patients with advanced cancer: A cohort study. Ann Intern Med 156:204–10.

Mack JW, Weeks JC, Wright AA, et al. 2010. End-of-life discussions, goal attainment and distress at the end of life. J Clin Oncol 28:1203–8.

MacKenzie MA, Smith-Howell E, Bomba PA, et al. 2018. Respecting choices and related models of advance care planning: A systematic review of published evidence. Am J Hosp Palliat Care 35:897–907.

Martina D, Geerse OP, Lin C-P, et al. 2021. Asian patients' perspectives on advance care planning: A mixed-method systematic review and conceptual framework. Palliat Med 35:1776–92.

Meier DE, Beresford L. 2009. POLST offers next stage in honoring patient preferences. J Palliat Med 12:291–95.

© 2022 Johns Hopkins University Press

Modes ME, Engelberg RA, Downey L, et al. 2019. Toward understanding the relationship between prioritized values and preferences for cardiopulmonary resuscitation among seriously ill adults. J Pain Symptom Manage 58:567–77.

Morrison RS, Morrison EW, Glickman DF. 1994. Physician reluctance to discuss advance directives. Arch Intern Med 154:2311–18.

National Hospice and Palliative Care Organization. 2020. "Downloading Your State's Advance Directive." Accessed April 28, 2020. https://www.nhpco.org/patients-and-caregivers/advance-care-planning/advance-directives/downloading-your-states-advance-directive/.

National POLST. 2020. "Names of POLST Programs." Accessed April 28, 2020. https://polst.org/programs-in-your-state/#levels.

Paladino J, Bernacki R, Neville BA, et al. 2019. Evaluating an intervention to improve communication between oncology clinicians and patients with life-limiting cancer: A cluster randomized clinical trial of the serious illness care program. JAMA Oncol 5:801–9.

Perkins HS. 2007. Controlling death: The false promise of advance directives. Ann Intern Med 147:51–57.

Quill TE, Abernethy AP. 2013. Generalist plus specialist palliative care—creating a more sustainable model. N Engl J Med 368:1173–75.

Quill TE, Brody H. 1996. Physician recommendations and patient autonomy: Finding a balance between physician power and patient choice. Ann Intern Med 125:763–69.

Schneiderman LJ, Kaplan RM, Pearlman RA, et al. 1993. Do physicians' own preferences for life-sustaining treatment influence their perceptions of patients' preferences? J Clin Ethics 4:28–33.

Schuster RA, Hong SY, Arnold RM, et al. 2014. Investigating conflict in ICUs—Is the clinicians' perspective enough? Crit Care Med 42:328–35.

Shanawani H, Wenrich MD, Tonelli MR, et al. 2008. Meeting physicians' responsibilities in providing end-of-life care. Chest 133:775–86.

Silveira MJ, Kim SYH, Langa KM. 2010. Advance directives and outcomes of surrogate decision-making before death. N Engl J Med 262:1211–18.

Stone D, Patton B, Heen S. 2010. Difficult Conversations: How to Discuss What Matters Most. 2nd ed. New York: Penguin.

© 2022 Johns Hopkins University Press

Sudore RL, Boscardin J, Feuz MA, et al. 2017. Effect of the PREPARE website vs an easy-to-read advance directive on advance care planning documentation and engagement among veterans: A randomized clinical trial. JAMA Intern Med 177:1102–9.

Sudore RL, Lum HD, You JJ, et al. 2017. Defining advance care planning for adults: A consensus definition from a multidisciplinary Delphi panel. J Pain Symptom Manage 53:821–32.

Sudore RL, Schillinger D, Katen MT, et al. 2018. Engaging diverse English- and Spanish-speaking older adults in advance care planning: The PREPARE randomized clinical trial. JAMA Intern Med 178:1616–25.

Taylor LJ, Nabozny MJ, Steffens NM, et al. 2017. A framework to improve surgeon communication in high-stakes surgical decisions: Best case / worst case. JAMA Surg 152:531–38.

Weissman DE, Quill TE, Arnold RM. 2010a. The family meeting: End-of-life goal setting and future planning #227. J Palliat Med 13:462–63.

Weissman DE, Quill TE, Arnold RM. 2010b. Helping surrogates make decisions #226. J Palliat Med 13:461–62.

Wendler D, Rid A. 2011. Systematic review: The effect on surrogates of making treatment decisions for others. Ann Intern Med 154:336–46.

Widera EW, Rosenfeld KE, Fromme EK, et al. 2011. Approaching patients and family members who hope for a miracle. J Pain Symptom Manage 42:119–25.

Yadav KN, Gabler NB, Cooney E, et al. 2017. Approximately one in three US adults completes any type of advance directive for end-of-life care. Health Aff 36:1244–51.

How Prognosis Affects the Advance Care Plan

Apatira L, Boyd EA, Malvar G, et al. 2008. Hope, truth, and preparing for death: Perspectives of surrogate decision-makers. Ann Intern Med 149:861–68.

Ariadne Labs. 2020. “Serious Illness Care.” Accessed April 28, 2020. https://www.ariadnelabs.org/areas-of-work/serious-illness-care/.

Bakitas MA, Tosteson TD, Li Z, et al. 2015. Early versus delayed initiation of concurrent palliative oncology care: Patient outcomes in the ENABLE III randomized controlled trial. J Clin Oncol 33:1428–45.

Basch E, Deal AM, Kris MG, et al. 2016. Symptom monitoring with patient-reported outcomes during routine cancer treatment: A randomized controlled trial. J Clin Oncol 34:557–65.

© 2022 Johns Hopkins University Press

Blackhall LJ, Murphy ST, Frank G, et al. 1995. Ethnicity and attitudes toward patient autonomy. JAMA 274:820–25.

Cain CL, Surbone A, Elk R, et al. 2018. Culture and palliative care: Preferences, communication, meaning, and mutual decision making. J Pain Symptom Manage 55:1408–19.

Christakis N. 1999. Death Foretold: Prophecy and Prognosis in Medical Care. Chicago: University of Chicago Press.

Clark MA, Person SD, Gosline A, et al. 2018. Racial and ethnic differences in advance care planning: Results of a statewide population-based survey. J Palliat Med 21:1078–85.

Colclough YY. 2017. Native American death taboo: Implications for health care providers. Am J Hosp Palliat Care 34:584–91.

Connor SR, Pyenson B, Fitche K, et al. 2007. Comparing hospice and non-hospice patient survival among patients who die within a three-year window. J Pain Symptom Manage 33:238–46.

Daugherty CK, Hlubocky FJ. 2008. What are terminally ill cancer patients told about their expected deaths? A study of cancer physicians' self-reports of prognostic disclosure. J Clin Oncol 26:5988–93.

Derry HM, Carrington Reid M, Prigerson HG. 2019. Advanced cancer patients' understanding of prognostic information: Applying insights from psychological research. Cancer Med 8:4081–88.

Emanuel EJ, Fairclough DL, Wolfe P, et al. 2004. Talking with terminally ill patients and their caregivers about death, dying, and bereavement: Is it stressful? Is it helpful? Arch Intern Med 164:1999–2004.

Enzinger AC, Zhang B, Schrag D, et al. 2015. Outcomes of prognostic disclosure: Associations with prognostic understanding, distress, and relationship with physician among patients with advanced cancer. J Clin Oncol 33:3809–16.

Ferrell B, Sun V, Hurria A, et al. 2015. Interdisciplinary palliative care for patients with lung cancer. J Pain Symptom Manage 50:758–67.

Gilligan T, Coyle N, Frankel RM, et al. 2017. Patient-clinician communication: American Society of Clinical Oncology consensus guideline. J Clin Oncol 35:3618–32.

Gramling R, Fiscella K, Xing G, et al. 2016. Determinants of patient-oncologist prognostic discordance in advanced cancer. JAMA Oncol 2:1421–26.

Grudzen CR, Richardson LD, Johnson PN, et al. 2016. Emergency department-initiated palliative care in advanced cancer. JAMA Oncol 2:591–98.

© 2022 Johns Hopkins University Press

Hobbs GS, Landrum MB, Arora NK, et al. 2015. The role of families in decisions regarding cancer treatments. Cancer 121:1079–87.

Ingersoll LT, Alexander SC, Priest J, et al. 2019. Racial/ethnic differences in prognosis communication during initial inpatient palliative care consultations among people with advanced cancer. Patient Educ Couns 102:1098–1103.

Jackson VA, Jacobsen J, Greer JA, et al. 2013. The cultivation of prognostic awareness through the provision of early palliative care in the ambulatory setting: A communication guide. J Palliat Med 16:894–900.

Jacobsen J, Brenner K, Greer JA, et al. 2018. When a patient is reluctant to talk about it: A dual framework to focus on living well and tolerate the possibility of dying. J Palliat Med 21:322–27.

Levy MM. 1999. Making a personal relationship with death. In Managing Death in the Intensive Care Unit, Curtis JR, Rubenfeld GD (eds.). Oxford: Oxford University Press.

Loh KP, Mohile SG, Lund JL, et al. 2019. Beliefs about advanced cancer curability in older patients, their caregivers, and oncologists. Oncologist 24:e292–e302.

Mack JW, Fasciano KM, Block SD. 2018. Communication about prognosis with adolescent and young adult patients with cancer: Information needs, prognostic awareness, and outcomes of disclosure. J Clin Oncol 36:1861–67.

Mack JW, Smith TJ. 2012. Reasons why physicians do not have discussions about poor prognosis and why it matters. J Clin Oncol 30:2715–17.

Mack JW, Walling A, Dy S, et al. 2015. Patient beliefs that chemotherapy may be curative and care received at the end of life among patients with metastatic lung and colorectal cancer. Cancer 121:1891–97.

Nipp RD, El-Jawahri A, Fishbein JN, et al. 2016. The relationship between coping strategies, quality of life, and mood in patients with incurable cancer. Cancer 122:2110–16.

Nipp RD, Greer JA, El-Jawahri A, et al. 2017. Coping and prognostic awareness in patients with advanced cancer. J Clin Oncol 35:2551–57.

Obermeyer Z, Makar M, Abujaber S, et al. 2014. Association between the Medicare hospice benefit and health care utilization and costs for patients with poor-prognosis cancer. JAMA 312:1888–96.

Palmer BW, Harmell AL. 2016. Assessment of healthcare decision-making capacity. Arch Clin Neuropsychol 31:530–40.

© 2022 Johns Hopkins University Press

Reisfield GM, Wallace SK, Munsell MF, et al. 2006. Survival in cancer patients undergoing in-hospital cardiopulmonary resuscitation: A meta-analysis. Resuscitation 71:152–60.

Sanders JJ, Robinson MT, Block SD. 2016. Factors impacting advance care planning among African Americans: Results of a systematic integrated review. J Palliat Med 19:202–27.

Schillerstrom JE, Horton MS, Royall DR. 2005. The impact of medical illness on executive function. Psychosomatics 46:508–16.

Shen MJ, Trevino KM, Prigerson HG. 2018. The interactive effect of advanced cancer patient and caregiver prognostic understanding on patients' completion of do not resuscitate orders. Psychooncology 27:1765–71.

Smith AK, McCarthy EP, Paulk E, et al. 2008. Racial and ethnic differences in advance care planning among patients with cancer: Impact of terminal illness acknowledgment, religiousness, and treatment preferences. J Clin Oncol 26:4131–37.

Smith TJ, Dow LA, Virago E, et al. 2010. Giving honest information to patient with advanced cancer maintains hope. Oncology 24:521–25.

Smith TJ, Temin S, Alesi ER, et al. 2012. American Society of Clinical Oncology provisional clinical opinion: The integration of palliative care into standard oncology care. J Clin Oncol 30:880–87.

Stevens EE, Abrahm JA. 2019. Adding silver to the rainbow: Palliative and end-of-life care for the geriatric LGBTQ patient. J Palliat Med 22:602–6.

Temel JS, Greer JA, Muzikansky A, et al. 2010. Early palliative care for patients with metastatic non-small cell lung cancer. N Engl J Med 363:733–42.

Tulsky JA, Chesny MA, Lo B. 1995. How do medical residents discuss resuscitation with patients? J Gen Intern Med 10:436–42.

von Gunten CF, Ferris F, Emanuel LL. 2000. Ensuring competency in end-of-life skills: Communication and relational skills. JAMA 284:3051–57.

Weeks JC, Catalano PJ, Cronin A, et al. 2012. Patients' expectations about effects of chemotherapy for advanced cancer. N Engl J Med 367:1616–25.

Weeks JC, Cook EF, O'Day SSJ, et al. 1998. Relationship between cancer patients' predictions of prognosis and their treatment preferences [see comments]. JAMA 279:1709–14.

Wendler D, Rid A. 2011. Systematic review: The effect on surrogates of making treatment decisions for others. Ann Intern Med 154:336–46.

Wright AA, Mack JW, Kritek PA, et al. 2010. Influence of patients' preferences and treatment site on cancer patients' end-of-life care. Cancer 116:4656–63.

© 2022 Johns Hopkins University Press

Wright AA, Zhang B, Ray A, et al. 2008. Associations between end-of-life discussions, patient mental health, medical care near death, and caregiver bereavement adjustment. JAMA 300:1665–73.

Yennurajalingam S, Rodrigues LF, Shamieh O, et al. 2018. Perception of curability among advanced cancer patients: An international collaborative study. Oncologist 23:501–6.

Yuen JK, Reid MC, Fetters MD. 2011. Hospital do-not-resuscitate orders: Why they have failed and how to fix them. J Gen Intern Med 7:791–97.

Ethics Consultations

Dubler NN, Liebman CB. 2013. Bioethics Mediation: A Guide to Shaping Shared Solutions. Revised and expanded ed. Nashville, TN: Vanderbilt University Press

Kon AA, Davidson JE, Morrison W, et al. 2016. Shared decision making in ICUs: An American College of Critical Care Medicine and American Thoracic Society policy statement. Crit Care Med 44:188–201.

Jonsen AR, Siegler M, Winslade WW. 2017. Clinical Ethics: A Practical Approach to Ethical Decisions in Clinical Medicine. 8th ed. New York: McGraw-Hill.

Chapter 2. Working with Patients' Families

Acquaviva KD. 2017. LGBTQ-Inclusive Hospice and Palliative Care: A Practical Guide to Transforming Professional Practice. New York: Harrington Park Press.

Back AL, Arnold RM, Baile WF, et al. 2007. Efficacy of communication skills training for giving bad news and discussing transitions to palliative care. Arch Intern Med 167:453–60.

Bushfield S, DeFord B. 2009. End-of-life Care and Addiction: A Family Systems Approach. New York: Springer.

Clayton JM, Butow PN, Tattersall MH. 2005. The needs of terminally ill cancer patients versus those of caregivers for information regarding prognosis and end-of-life issues. Cancer 103:1957–1964

Coolen PR. 2012. Cultural relevance in end-of-life care. Ethno Med, May 12, 2012. https://ethnomed.org/clinical/end-of-life/cultural-relevance-in-end-of-life-care.

Davies B, Reimer J, Brown P, et al. 1995. Fading Away: The Experience of Transition in Families with Terminal Illness. New York: Baywood Publishing.

© 2022 Johns Hopkins University Press

Epstein NB, Bishop D, Ryan C, et al. 1993. The McMaster model view of healthy family functioning. In Normal Family Processes, Walsh F (ed.). New York: Guilford.

Fahlberg B, Foronda C, Baptiste D. 2016. Cultural humility: The key to patient/family partnerships for making difficult decisions. Nursing 46:14–16.

Fisher C. 2003. The invisible dimension: Abuse in palliative care families. J Palliat Med 6:257–64.

Gaudio FD, Zaider TI, Brier M, et al. 2012. Challenges in providing family-centered support to families in palliative care. Palliat Med 26:1025–1033.

Gysels M, Evans N, Meñaca A, et al. 2012. Culture and end of life care: A scoping exercise in seven European countries. PloS One 7:e34188.

Hadziabdic E, Hjelm K. 2013. Working with interpreters: practical advice for use of an interpreter in healthcare. Int J Evid Based Healthc 11:69–76.

Juckett G, Unger K. 2014. Appropriate use of medical interpreters. Am Fam Physician 90:476–480.

Kagawa-Singer M, Blackhall LJ. 2001. Negotiating cross-cultural issues at the end of life: "You got to go where he lives." JAMA 286:2993–3001.

Kerr ME. 2000. One family's story: A primer on Bowen theory. The Bowen Center for the Study of the Family. 2000. http://www.thebowencenter.org.

King DA, Quill T. 2006. Working with families in palliative care: One size does not fit all. J Palliat Med 9:704–15.

Kissane D, McKenzie M, Bloch S, et al. 2006. Family focused grief therapy: A randomized, controlled trial in palliative care and bereavement. Am J Psychiatry 163:1208–18.

Kramer BJ, Kavanaugh M, Trentham-Dietz A, et al. 2009. Predictors of family conflict at the end of life: The experience of spouses and adult children of persons with lung cancer. Gerontologist 50:215–25.

Langer SL, Brown JD, Syrjala KL. 2009. Intrapersonal and interpersonal consequences of protective buffering among cancer patients and caregivers. Cancer 115(S18):4311–25.

Lawrence JA, Dodds AE. 2003. Goal-directed activities and life-span development. In Handbook of Developmental Psychology, Valsiner J, Connolly K (eds.). London: Sage Publications.

Lin C-P, Cheng S-Y, Mori M, et al. 2019. 2019 Taipei declaration on advance care planning: A cultural adaptation of end-of-life care discussion. J Palliat Med 22:1175–77.

© 2022 Johns Hopkins University Press

Liossi C, Hatira P, Mystakidou K. 1997. The use of the genogram in palliative care. Palliat Med 11:455–461.

López SR. 1997. Cultural competence in psychotherapy: a guide for clinicians and their supervisors. In Handbook of Psychotherapy Supervision, Watkins CE, Jr (ed.). Hoboken, N.J.: John Wiley & Sons.

Makoff E. 2020. Racial trauma: A palliative care perspective. J Palliat Med 23:577–78.

McGoldrick M, Gerson R, Petry SS. 2008. Genograms: Assessment and Intervention. New York: Norton.

Meyer F, Block S. 2011. Personality disorders in the oncology setting. J Support Oncol 9:44–51.

Molloy DW, Clarnette RM, Braun EA, et al. 1991. Decision making in the incompetent elderly: "The daughter from California Syndrome." J Am Geriatr Soc 39:396–399.

Mosher DK, Hook JN, Farrell JE, et al. 2017. Cultural humility. In Handbook of Humility: Theory, Research, and Applications, E. L. Worthington, D. E. Davis, and J. N. Hook (eds.) (pp. 91–104). New York: Taylor and Francis.

Mynatt BS, Mowery RL. 2013. The family, larger systems, and end-of-life decision making. In Handbook of Thanatology (pp. 119–128). New York: Routledge.

National Consensus Project for Quality Palliative Care. 2018. Clinical Practice Guidelines for Quality Palliative Care. 4th ed. Richmond, VA: National Coalition for Hospice and Palliative Care.

Northouse L, Katapodi MC, Song L, et al. 2010. Interventions with family caregivers of cancer patients: Meta-analysis of randomized trials. CA Cancer J Clin 60:317–39.

Olson DH. 2000. Circumplex model of marital and family systems. J Family Therapy 22:144–67.

Olson D. 2011. FACES IV and the circumplex model: Validation study. J Marital Fam Ther 37:64–80.

Olson DH, Gorall DM. 2003. Circumplex model of marital and family systems. In Normal Family Process, 3rd ed, Walsh F (ed.). New York: Guilford.

Olson D, Russell CS, Sprenkle DH. 2014. Circumplex Model: Systemic Assessment and Treatment of Families. New York: Routledge.

Peek ME, Wilson SC, Gorawara-Bhat R, et al. 2009. Barriers and facilitators to shared decision-making among African-Americans with diabetes. J Gen Intern Med 24:1135–39.

© 2022 Johns Hopkins University Press

Periyakoil VJ. 2020. The need of the hour: Culturally competent care for seriously ill patients. J Palliat Med 23:440–41.

Quinn JR, Schmitt M, Baggs JG, et al. 2012. Family members' informal roles in end-of-life decision making in adult intensive care units. Am J Crit Care 21:43–51.

Radina K. 2018. What role do you play in your family? A Chance for Change Counseling. Accessed September 1, 2018. http://kathyradina.com/role-play-family/.

Schenker Y, Smith A, Arnold R, et al. 2012. "Her husband doesn't speak much English": Conducting a family meeting with an interpreter, J Palliat Med. 15:494–498.

Schuler TA, Zaider TI, Yuelin L, et al. 2014. Typology of perceived family functioning in an American sample of patients with advanced cancer. J Pain Symptom Manage 48:281–88.

Searight HR, Gafford J. 2005. Cultural diversity at the end of life: issues and guidelines for family physicians. Am Fam Physician 71:515–522.

Speice J, Harkness J, Laneri R, et al. 2000. Involving family members in cancer care: focus group considerations of patients and oncological providers. Psychooncology 9:101–112.

Steele R, Davies B. 2015. Supporting families in palliative care. In Oxford Textbook of Palliative Nursing. Social Aspects of Care 6. Oxford: Oxford University Press.

Steinberg SM. 2011. Cultural and religious aspects of palliative care. Int J Crit Illn Inj Sci 1:154–56.

Tran QNH, Dieu-Hien Ht, King IN, et al. 2019. Providing culturally respectful care for seriously ill Vietnamese Americans. J Pain Symptom Manage 58:344–54.

Wygant CRC, Bruera E, Hui D. 2014. Intimate partner violence in an outpatient palliative care setting. J Pain Symptom Manage 47:806–13.

Zaider T, Kissane D. 2009. The assessment and management of family distress during palliative care. Curr Opin Support Palliat Care 3:67–71.

Zaider TI, Kissane DW, Schofield E, et al. 2020. Cancer-Related Communication During Sessions of Family Therapy at the End of Life. Psychooncology 29:373–80.

Partnering with Medical Interpreters

Flores G, Milagros A, Pizzo Baron C, et al. (2012). Errors in medical interpretation and their potential clinical consequences: A comparison of professional vs. ad hoc vs. no interpreters. Ann Emerg Med 60:545–53.

© 2022 Johns Hopkins University Press

Green AR, Chijioke Nze C. 2017. Language-based inequity in health care: Who is the "poor historian"? AMA J Ethics 19:263–71.

Hadziabdic E, Hjelm K. 2013. Working with interpreters: Practical advice for use of an interpreter in healthcare. Int J Evid Based Healthc 11:69–76.

IMIA. 2020. IMIA Guide on Working with Medical Interpreters. Accessed September 8, 2020. https://www.imiaweb.org/uploads/pages/380_5.pdf.

Johnson KS. 2013. Racial and ethnic disparities in palliative care. J Palliat Med 16:1329–34.

Juckett G, Unger K. 2014. Appropriate use of medical interpreters. Am Fam Physician 90:476–80.

Kirby E, Broom A, Good P, et al. 2016. Experiences of interpreters in supporting the transition from oncology to palliative care: A qualitative study. Asia-Pacific J Clin Oncol, July 20. https://doi.org/10.1111/ajco.12563.

Kirby E, Lwin Z, Kenny K, et al. 2018. "It doesn't exist…": Negotiating palliative care from a culturally and linguistically diverse patient and caregiver perspective. BMC Palliat Care 17:90.

Scamman K. 2018. Best practices for communication through an interpreter in healthcare. Telelanguage, August 27. https://telelanguage.com/best-practices-communicating-through-an-interpreter-in-healthcare/.

Schenker Y, Smith A, Arnold R, et al. 2012. "Her husband doesn't speak much English": Conducting a family meeting with an interpreter. J Palliat Med 15:494–98.

Silva MD, Genoff M, Zaballa A, et. al. 2016. Interpreting at the end of life: A systematic review of the impact of interpreters on the delivery of palliative care services to cancer patients with limited English proficiency. J Pain Symptom Manage 51:569–80.

Relevant Legislation and Regulations

Americans With Disabilities Act of 1990, Pub. L. No. 101–336, 104 Stat. 328 (1990), section 1557 (the non-discrimination clause).

Civil Rights Act of 1964, Pub. L. 88–352, 78 Stat. 241 (1964)

Executive Order 13166, "Improving Access to Services for Persons with Limited English Proficiency," August 11, 2000, https://www.justice.gov/crt/executive-order-13166.

The Joint Commission, https://www.jointcommission.org.

Patient Protection and Affordable Care Act, 42 U.S.C. § 18001 et seq. (2010).

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Resources on Culture

American Psychological Association, "Culturally Diverse Communities and Palliative and End-of-Life Care," https://www.apa.org/pi/aging/programs/eol/end-of-life-diversity.pdf.

American Psychological Association, "End-of-Life Issues and Care," https://www.apa.org/pi/aging/programs/eol.

American Psychological Association, "End-of-Life and Socioeconomic Status Fact Sheet," https://www.apa.org/pi/ses/resources/publications/end-life.

Ethno Med: Phyllis R. Coolen's overview article, "Cultural Relevance in End-of-Life Care," https://ethnomed.org/clinical/end-of-life/cultural-relevance-in-end-of-life-care, provides an overview of the key areas in which culture can influence end-of-life decision-making.

National Hospice and Palliative Care Organization, "Diversity," http://www.nhpco.org/Diversity.

National Institute of Nursing Research, About the Palliative Care: Conversations Matter Campaign, https://www.ninr.nih.gov/newsandinformation/conversationsmatter/about-conversations-matter.

National Resource Center on LGBT Aging, "End of Life Decisions," https://www.lgbtagingcenter.org/resources/resources.cfm?s=7.

University of Washington Patient and Family Education Services, "Culture Clues" and end-of-life tip sheets, http://depts.washington.edu/pfes/CultureClues.htm.

Chapter 3. Spiritual Care in Palliative Care

General

Cassel EJ. 1982. The nature of suffering and the goals of medicine. N Engl J Med 306:639–45.

Cassel EJ. 2014. The Nature of Clinical Medicine: The Return of the Clinician. Oxford: Oxford University Press.

Cross FK, Livingstone EA, eds. 1997. The Oxford Dictionary of the Christian Church. Oxford: Oxford University Press.

Edwards A, Pang N, Shiu V, et al. 2010. The understanding of spirituality and the potential role of spiritual care in end-of-life and palliative care: A meta-study of qualitative research. Pall Med 24:753–70.

© 2022 Johns Hopkins University Press

Jeuland J, Fitchett G, Shulman-Green D, et al. 2017. Chaplains working in palliative care: Who they are and what they do. J Pall Med 20:502–8.

Puchalski C, Ferrell B, Virani R, et al. 2009. Improving the quality of spiritual care as a dimension of palliative care: The report of the consensus conference. J Palliat Med 12:885–904.

Rosenberg LB, Goodlev ER, Izen SE, et al. 2020. Top ten tips palliative care clinicians should know about caring for Jewish patients. J Palliat Med 23:1658–61.

Tarumi Y, Taube A, Watanabe S. 2003. Clinical pastoral education: A physician's experience and reflection on the meaning of spiritual care in palliative care. J Pastoral Care Counsel 57:27–31.

The Spiritual Landscape of Patients with Serious Illness

Bai J, Brubaker A, Meghani SH, et al. 2018. Spirituality and quality of life in Black patients with cancer pain. J Pain Symptom Manage 56:390–98.

Balboni T, Balboni M. 2018. The spiritual event of serious illness. J Pain Symptom Manage 56:816–22.

Balboni TA, Vanderwerker LC, Block SD, et al. 2007. Religiousness and spiritual support among advanced cancer patients and associations with end-of-life treatment preferences and quality of life. J Clin Oncol 25:555–60.

Ehman J, Ott B, Short TH, et al. 1999. Do patients want physicians to inquire about their religious or spiritual beliefs if they become gravely ill? Arch Intern Med 159:1803–6.

Kestenbaum A, Fitchett G, Galchutt P, et al. 2022. Top ten tips palliative care clinicians should know about spirituality in serious illness. J Palliat Med 25:312–18.

Koenig H. 1998. Religious attitudes and practices of hospitalized medically ill older adults. Intern J Geri Psych 13:213–24.

Pew Research Center. 2014. The Religious Landscape Study. https://www.pewforum.org/religious-landscape-study/.

Phelps A, Lauderdale K, Alcorn S, et al. 2012. Addressing spirituality within the care of patients at the end of life: Perspectives of patients with advanced cancer, oncologists, and oncology nurses. Version 2. J Clin Oncol 30:2538–44.

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Positive and Negative Religious Coping

Maiko SM, Ivy S, Newton Watson B, et al. 2019. Spiritual and religious coping of medical decision makers for hospitalized older adult patients. J Palliat Med 22:385–92.

McClain C, Rosenfeld B, Breitbart W. 2003. Effect of spiritual well-being on end-of-life despair in terminally-ill cancer patients. Lancet 361:1603–7.

Monod S, Rochat E, Martin E, et al. 2007. Spiritual assessment in older patients undergoing post-acute rehabilitation: A pilot study. Gerontologist 47:S774.

Pargament K. 2001. The Psychology of Religion and Coping. New York: Guilford.

Pargament K, Feuille M, Burdzy D. 2011. The brief RCOPE: Current psychometric status of a short measure of religious coping. Religions 2:51–76.

Rodin G, Lo C, Mikulincer M, et al. 2009. Pathways to distress: The multiple determinants of depression, hopelessness, and the desire for hastened death. Soc Sci Med 68:562–69.

Spiritual Needs and Spiritual Distress

Alcorn S, Balboni M, Prigerson HG, et al. 2010. If God wanted me yesterday, I wouldn't be here today: Religious and spiritual themes in patients' experiences of advanced cancer. J Palliat Med 13:581–88.

Attig T. 2003. In Dying, Death, and Bereavement: A Challenge for Living, 2nd ed., Corliss IB, Germino BB, Pittman MA (eds.). New York: Springer.

Cason C. 1983. Spiritual needs of patients—Are they recognized? Ca Nurs. 6:187–92.

Drews MF. 2017. The evolution of hope in patients with terminal illness. Nursing 47:11–12.

Fitchett G, Canada A. 2010. The role of religion/spirituality in coping with cancer: Evidence, assessment, and intervention. In Psycho-Oncology, J Holland et al. (ed.). New York: Oxford University Press.

Grant E, Murray SA, Kendall M, et al. 2004. Spiritual issues and needs: Perspectives from patients with advanced cancer and nonmalignant disease. A qualitative study. Palliat Support Care 2:371–78.

Highfield MF, Cason C. 1983. Spiritual needs of patients: Are they recognized? Cancer Nurs 6:187–92.

Hills J, Paice JA, Cameron JR, et al. 2005. Spirituality and distress in palliative care consultation. J Palliat Med 8:782–88.

© 2022 Johns Hopkins University Press

Jacobs M. 2008. What are we doing here? Chaplains in contemporary healthcare. Hastings Center Report 38:15–18.

Sachs E, Kolva E, Pessin H, et al. 2013. On sinking and swimming: The dialectic of hope, hopelessness, and acceptance in terminal cancer. Am J Hosp Palliat Care 30:121–27.

Steinhauser K, Christakis N, Clipp EC, et al. 2000. Factors considered important at the end of life by patients, family, physicians, and other care providers. JAMA 284:2476–82.

Spiritual Assessment

Anandarajah G, Hight E. 2001. Spirituality and medical practice: Using the HOPE questions as a practical tool for spiritual assessment. Am Fam Physician 63:81–89.

Delgado-Guay M, Hui D, Parsons HA, et al. 2011. Spirituality, religiosity, and spiritual pain in advanced cancer patients. J Pain Symptom Manage 41:986–94.

Fitchett G, Pierson AL, Hoffmeyer C, et al. 2020. Development of the PC-7, a quantifiable assessment of spiritual concerns of patients receiving palliative care near the end of life. J Palliat Med 23:248–53.

Shields M, Kestenbaum A, Dunn L. 2014. Spiritual AIM and the work of the chaplain: A model for assessing spiritual needs and outcomes in a relationship. Pall Support Care 13:75–89.

Clinicians Providing Spiritual Care

Astrow AB, Wexler A, Texeira K, et al. 2007. Is failure to meet spiritual needs associated with cancer patients' perceptions of quality of care and their satisfaction with care? J Clin Oncol 25:5753–57.

Balboni T, Balboni M, Paulk ME, et al. 2011. Support of cancer patients' spiritual needs and associations with medical care costs at the end of life. Cancer 117:5383–91.

Balboni TA, Balboni M, Enzinger AC, et al. 2013. Provision of spiritual support to patients with advanced cancer by religious communities and associations with medical care at the end of life. JAMA Intern Med 173:2538–44.

Balboni A, Paulk ME, Balboni MJ, et al. 2010. Provision of spiritual care to patients with advanced cancer: Associations with medical care and quality of life near death. J Clin Oncol 20:445–52.

Balboni MJ, Sullivan A, Enzinger AC, et al. 2014. Nurse and physician barriers to spiritual care provision at the end of life. J Pain Symptom Manage 48:400–410.

© 2022 Johns Hopkins University Press

Bandini J, Thiel M, Meyer EC, et al. 2019. Interprofessional spiritual care training for geriatric care providers. J Pall Med 22:1–7.

Best M, Butow P, Olver I. 2016a. Creating a safe space: A qualitative inquiry into the way doctors discuss spirituality. Pall Support Care 14:519–31.

Best M, Butow P, Olver I. 2016b. Doctors discussing religion and spirituality: A systematic literature review. Pall Med 30:327–37.

Best M, Butow P, Olver I. 2016c. Why do we find it so hard to discuss spirituality? A qualitative exploration of attitudinal barriers. J Clin Med 5:77.

Borneman T, Ferrell B, Puchalski CM. 2010. Evaluation of the FICA tool for spiritual assessment. J Pain Symptom Manage 40:163–73.

Carpenito-Moyet LJ. 2010. Nursing Diagnosis: Application to Clinical Practice. Philadelphia: Lippincott Williams and Wilkins.

Daudt H, d'Archangelo M, Duquette D. 2018. Spiritual care training in healthcare: Does it really have an impact? Palliat Support Care 23:1–9.

Epstein-Peterson ZD, Sullivan AJ, Ensinger AC. 2015. Examining forms of spiritual care provided in the advanced cancer setting. Am J Hosp Palliat Care 32:750–57.

Griffin JL. 2018. Hope modules: Brief psychotherapeutic interventions to counter demoralization from daily stressors of chronic illness. Acad Psych 42:135–45.

Kao LE, Lokko HN, Gallivan K, et al. 2017. A model of collaborative spiritual and psychiatric care of oncology patients. Psychosomatics 58:614–23.

Mako K. 2006. Spiritual pain among patients with advanced cancer in palliative care. J Palliat Med 9:1106–13.

Marin D, Sharma V, Sosunov E, et al. 2015. Relationship between chaplain visits and patient satisfaction. J Health Care Chaplain 21:14–24.

Penderell A, Brazil K. 2010. The spirit of palliative practice: A qualitative inquiry into the spiritual journey of palliative care physicians. Pall Support Care 8:415–20.

Puchalski C, Romer A. 2000. Taking a spiritual history allows clinicians to understand patients more fully. J Palliat Med 3:129–37.

Robinson M, Thiel M, Meyer C. 2007. On being a spiritual care generalist. Am J Bioethics 7:724–26.

© 2022 Johns Hopkins University Press

Van de Geer J, Groot M, Andela R, et al. 2017. Training hospital staff on spiritual care in palliative care influences patient-reported outcomes: Results of a quasi-experimental study. Palliat Med 31:743–53.

Yang GM, Tan YY, Cheung YBV, et al. 2017. Effect of a spiritual care training program for staff on patient outcomes. Palliat Support Care 15:434–43.

Zollfrank AA, Trevino KM, Balboni MJ, et al. 2015. Teaching health care providers to provide spiritual care: A pilot study. J Palliat Med 18:408–14.

The Role of Religion in Medical Decision-Making

Bradley C. 2009. Roman Catholic doctrine guiding end-of-life care: A summary of the recent discourse. J Pall Med 12:373–77.

Chakraborty R, El-Jawahri AR, Litzow MR, et al. 2017. A systematic review of religious beliefs about major end-of-life issues in the five major world religions. Palliat Support Care 15:609–22.

Lahaj M. 2011. "End of life care and the chaplain's role on the medical team. J IMA 43:173–78.

Leong M, Olnick S, Akmal T, et al. 2016. How Islam influences end-of-life care: Education for palliative care clinicians. J Pain Symptom Manage 52:771–74.

Yachter C. 2007. Kol Torah. Vol. 17, Halacha. Teaneck, NJ: Torah Academy.

"I'm Waiting on a Miracle!"

Cooper B, Ferguson A, Bodurtha JN, et al. 2014. AMEN in challenging conversations: Bridging the gaps between faith, hope, and medicine. J Oncol Pract 10:e191–e195.

Shinall M, Stahl D, Bibler T. 2018. Addressing a patient's hope for a miracle. J Pain Symptom Manage 55:535–39.

Chapter 4. Sexuality, Intimacy, and Cancer

Aaberg V. 2016. The state of sexuality education in baccalaureate nursing programs. Nurse Educ Today 44:14–19.

Acquaviva KD. 2017. LGBTQ-Inclusive Hospice and Palliative Care: A Practical Guide to Transforming Professional Practice. New York: Harrington Park Press.

© 2022 Johns Hopkins University Press

Adams H. 2017. Confronting cancer health disparities due to sexual orientation and gender identity: ASCO publishes guidance on delivering high-quality care to every patient. ASCO Connection, August 30. https://connection.asco.org.

American Cancer Society (ACS). 2019. Cancer Facts and Figures 2019. Atlanta: American Cancer Society.

Ananth H, Jones L, King M, et al. 2003. The impact of cancer on sexual function: A controlled study. Palliat Med 17:202–5.

Annon J. 1976. The PLISSIT model: A proposed conceptual scheme for the behavioral treatment of sexual problems. Journal of Sex Education and Therapy 2:1–15.

Ashing-Giwa KT, Padilla G, Tejero J, et al. 2004. Understanding the breast cancer experience of women: A qualitative study of African American, Asian American, Latina and Caucasian cancer survivors. Psychooncology 13:408–28.

Association of Reproductive Health Professionals (ARHP). 2008. What you need to know: Talking to patients about sexuality and sexual health. Updated April 2008. http://www.arhp.org/uploadDocs/sexandsexfactsheet.pdf.

Bauer M, Haesler E, Fetherstonhaugh D. 2016. Let's talk about sex: Older people's views on the recognition of sexuality and sexual health in the health-care setting. Health Expectations 19:1237–50.

Bayer CR, Eckstrand KL, Knudson G, et al. 2017. Sexual health competencies for undergraduate medical education in North America. J Sex Med 14:535–40.

Bergmark K, Avall-Lundquist E, Dickman P, et al. 1999. Vaginal changes and sexuality in women with a history of cervical cancer. N Engl J Med 340:1383–89.

Bober S, Garber J, Recklitis CJ, et al. 2013. A pilot intervention addressing sexual dysfunction after risk-reducing oophorectomy. J Clin Oncol 31(suppl): abstr 9644.

Bober S, Reese J, Barbera L, et al. 2016. How to ask and what to do: A guide for clinical inquiry and intervention regarding female sexual health after cancer. Curr Opin Support Palliat Care 10:44–54.

Bober S, Varela V. 2012. Sexuality in adult cancer survivors: Challenges and intervention. J Clin Oncol 30:3712–19.

Bourgeois-Law G, Lotocki R. 1999. Sexuality and gynecological cancer: A needs assessment. Can J Hum Sex 8:231–40.

© 2022 Johns Hopkins University Press

Browner I. 2020. Applications in geriatric oncology: Demographics of cancer and aging. Accessed January 21, 2020. https://www.hopkinsmedicine.org/gec/series/cancer_aging.html.

Cagle JG, Bolte S. 2009. Sexuality and life-threatening illness: Implications for social work and palliative care. Health and Social Work 34:223–33.

Cagle JG, Osteen P, Sacco P, et al. 2017. Psychosocial assessment by hospice social workers: A content review of instruments from a national sample. J Pain Symptom Manage 53:40–48.

Cahil S, Makadon HJ. 2014. Sexual orientation and gender identity data collection in clinical settings and in electronic health records: A key to ending LGBT health disparities. LGBT Health 1:34–41.

Carr SV. 2007. Talking about sex to oncologists and about cancer to sexologists. Sexologies 16:265–66.

Chevret M, Jaudinot E, Sullivan K, et al. 2004. Quality of sexual life and satisfaction in female partners of men with ED: Psychometric validation of the Index of Sexual Life (ISL) questionnaire. J Sex Marital Ther 30:141–55.

Clifford D. 1998. Psychosexual awareness in everyday nursing. Nursing Standard 12:42–45.

Cort E, Monroe B, Oliviere D. 2004. Couples in palliative care. Sexual and Relationship Therapy 19:337–54.

Coyne K, Mandalia S, McCullough S, et al. 2010. The International Index of Erectile Function: Development of an adapted tool for use in HIV-positive men who have sex with men. J Sex Med 7:769–74.

Crenshaw, Kimberle. 1989. Demarginalizing the intersection of race and sex: A Black feminist critique of antidiscrimination doctrine, feminist theory and antiracist politics. University of Chicago Legal Forum 1989: article 8.

Dattilo J, Brewer M. 2005. Assessing clients' sexual health as a component of holistic nursing practice. J Holist Nurs 23:208–19.

Davis C. 2009. Find time to talk to your patients about sex. Cancer Nursing Practice 8:6–7.

Dicola D, Sparr E. 2016. Intimate partner violence. Am Fam Physician 94:646–51.

Dizon DS, Suzin D, McIlvenna S. 2014. Sexual health as a survivorship issue for female cancer survivors. Oncologist 19:202–10.

Fisher A. 2018. Therapeutic sexual aids frequently not available for cancer survivors who need them. ASCO.org, February 12. https://www.asco.org/about-asco/press-center/news-releases/therapeutic-sexual-aids-frequently-not-available-cancer.

© 2022 Johns Hopkins University Press

Ganz PA, Schag CF, Lee JJ, et al. 1992. The CARES: A generic measure of health-related quality of life for patients with cancer. Qual Life Res 1:19–29.

Gates G. 2017. In U.S., more adults identifying as LGBT. Gallup, January 11. https://news.gallup.com/poll/201731/lgbt-identification-rises.aspx.

Gianotten WL. 2007. Sexuality in the palliative-terminal phase of cancer. Sexologies 16:299–303.

Graves KD, Jensen RE, Cañar J, et al. 2012. Through the lens of culture: Quality of life among Latina breast cancer survivors. Breast Cancer Res Treat 136:603–13.

Griggs J, Maingi S, Blinder V, et al. 2017. American Society of Clinical Oncology position statement: Strategies for reducing cancer health disparities among sexual and gender minority populations. J Clin Oncol 35:2203–8.

Hawkins Y, Ussher J, Gilbert E, et al. 2009. Changes in sexuality and intimacy after the diagnosis and treatment of cancer. Cancer Nurs 32:271–80.

Hendren SK, O'Connor BI, Liu M, et al. 2005. Prevalence of male and female sexual dysfunction is high following surgery for rectal cancer. Ann Surg 242:212–23.

Hill-Kayser C, Vachani C, Hampshire M, et al. 2011. Sexual side effects (SSE) reported by adolescent/young adult (AYA) versus older cancer survivors. J Clin Oncol 29(suppl): abstr 9120.

Hordern AJ. 2000. Intimacy and sexuality for the woman with breast cancer. Cancer Nurs 23:230–36.

Hordern AJ. 2008. Intimacy and sexuality after cancer: A critical review of the literature. Cancer Nurs 31:E9–E17.

Hordern AJ, Currow DC. 2003. A patient-centered approach to sexuality in the face of life-limiting illness. Med J Australia 179(suppl 1):8–11.

Hordern AJ, Street AF. 2007. Communicating about patient sexuality and intimacy after cancer: Mismatched expectations and unmet needs. Med J Australia 186:224–27.

Hughes MK. 2000. Sexuality and the cancer survivor. Cancer Nurs 23:477–82.

Katz A. 2005. The sounds of silence: Sexuality information for cancer patients. J Clin Oncol 23:238–41.

Katz A. 2009. Gay and lesbian patients with cancer. Oncol Nurs Forum 36:203–7.

Kellogg Spadt S, Rosenbaum T, Dweck A, et al. 2014. Sexual health and religion: A primer for the sexual health clinician. J Sex Med 11:1606–19.

© 2022 Johns Hopkins University Press

Kuyper MB, Wester F. 1998. In the shadow: The impact of chronic illness on the patient's partner. Qual Health Res 8:237–53.

Lehmann V, Hagedoorn M, Gerhardt C, et al. 2015. Body issues, sexual satisfaction, and relationship status satisfaction in long-term childhood cancer survivors and healthy controls. Psychooncology 25:210–16.

Lemieux L, Kaiser S, Pereira J, et al. 2004. Sexuality in palliative care: Patient perspectives. Pall Med 18:630–37.

MacElveen P, McCorkle R. 1985. Understanding sexuality in progressive cancer. Sem Oncol Nurs 1:56–62.

March AL. 2018. Sexuality and intimacy in the older adult woman. Nurs Clin North Am 53:279–87.

Mick J, Hughes M, Cohen MZ. 2003. Sexuality and cancer: How oncology nurses can address it BETTER. Oncol Nurs Forum 30(suppl 2):152–53. Abstract.

Mutsch J, Friedrich M, Leuteritz K, et al. 2019. Sexuality and cancer in adolescents and young adults—a comparison between reproductive cancer patients and patients with non-reproductive cancer. BMC Cancer 19:828. https://doi.org/10.1186/s12885-019-6009-2.

Namiki S, Carlile RG, Namiki TS, et al. 2011. Racial differences in sexuality profiles among American, Japanese, and Japanese American men with localized prostate cancer. J Sex Med 8:2625–31.

Nápoles AM, Ortíz C, Santoyo-Olsson J, et al. 2015. Nuevo Amanecer: Results of a randomized controlled trial of a community-based, peer-delivered stress management intervention to improve quality of life in Latinas with breast cancer. Am J Public Health 105(suppl 3):e55–63.

National Cancer Institute. 2013. Sexuality and reproductive issues (PDQ): Health professional version. https://pubmed.ncbi.nlm.nih.gov/26389412/.

National Cancer Institute. 2020. "Cancer Disparities." Last updated November 17, 2020. https://www.cancer.gov/about-cancer/understanding/disparities.

National Coalition for Sexual Health. 2016. Sexual Health and Your Patients: A Provider's Guide. Washington, DC: Altarum Institute. https://nationalcoalitionforsexualhealth.org/tools/for-healthcare-providers/document/ProviderGuide.pdf.

Navon L, Morag A. 2003. Advanced prostate cancer patients' ways of coping with the hormonal therapy's effect on body, sexuality, and spousal ties. Qual Health Res 13:1378–92.

© 2022 Johns Hopkins University Press

Olsson M, Steineck G, Enskar K, et al. 2018. Sexual function in adolescent and young adult cancer survivors—a population-based study. J Cancer Surviv 12:450–59.

Park J, Safer J. 2018. Clinical exposure to transgender medicine improves students' preparedness above levels seen with didactic teaching alone: A key addition to the Boston University model for teaching transgender healthcare. Transgender Health 3:10–16.

Price B. 2010. Sexuality: Raising the issue with patients. Canc Nurs Practice 9:29–35.

Quinn GP, Alpert AB, Sutter M, et al. 2020. What oncologists should know about treating sexual and gender minority patients with cancer. J Oncol Pract 16:309–16.

Quinn GP, Sanchez JA, Sutton SK, et al. 2015. Cancer and lesbian, gay, bisexual, transgender/transsexual, and queer/questioning (LGBTQ) populations. CA Cancer J Clin 65:384–400.

Rosen R, Brown C, Heiman J, et al. 2000. The Female Sexual Function Index: A multidimensional self-report instrument for the assessment of female sexual function. J Sex Marital Ther 26:191–208.

Rosen RC, Riley A, Wagner G, et al. 1997. The International Index of Erectile Function: A multidimensional scale for assessment of erectile dysfunction. Urology 49:822–30.

Rubin ES, Rulio J, Tsai P, et al. 2018. Best practices in North American pre-clinical medical education in sexual history. J Sex Med 15:1414–25.

Saunamaki N, Andersson M, Engstrom M. 2010. Discussing sexuality with patients: Nurses' attitudes and beliefs. J Adv Nurs 66:1308–16.

Schabath MB, Blackburn CA, Sutter ME, et al. 2019. National Survey of Oncologists at National Cancer Institute-designated comprehensive cancer centers: Attitudes, knowledge, and practice behaviors about LGBTQ patients with cancer. J Clin Oncol 37:547–58.

Schover LR. 1999. Counseling cancer patients about changes in sexual function. Oncology 13:1585–91.

Schover LR, Rhodes MM, Baum G, et al. 2011. Sisters Peer Counseling in Reproductive Issues After Treatment (SPIRIT): A peer counseling program to improve reproductive health among African American breast cancer survivors. Cancer 117:4983–92.

Seaborne LA, Prince RJ, Kushner DM. 2015. Sexual health education in U.S. physician assistant programs. J Sex Med 12:1158–64.

Shell JA. 2007. Including sexuality in your nursing practice. Nurs Clin N Am 42:685–96.

Shell JA, Smith CK. 1994. Sexuality and the older person with cancer. Oncol Nurs Forum 21:553–58.

© 2022 Johns Hopkins University Press

Shindel AW, Ando AA, Nelson CJ, et al. 2010. Medical student sexuality: How sexual experience and sexuality training impact US and Canadian medical students' comfort in dealing with patients' sexuality in clinical practice. Academic Med 85:1321–30.

Shindel AW, Baazeem A, Eardley I, et al. 2016. Sexual health in undergraduate medical education: Existing and future needs and platforms. J Sex Med 13:1013–26.

Spaulding S. 2006. You tell us: No patient assessment is complete without asking one simple question. ONS News 21:6–7.

Srinivasan S, Glover J, Tampi RR, et al. 2019. Sexuality and the older adult. Curr Psychiatry Rep 21:97.

Stanton A, Handy A, Meston C. 2018. Sexual function in adolescents and young adults diagnosed with cancer: A systematic review. J Cancer Surviv 12:47–63.

Stevens E, Abrahm J. 2019. Adding silver to the rainbow: Palliative and end-of-life care for the geriatric LGBTQ patient. J Palliat Med 22:602–6.

Symonds T, Perelman MA, Althof S, et al. 2007. Development and validation of a premature ejaculation diagnostic tool. Eur Urol 52:565–73.

Taylor B. 2014. Experiences of sexuality and intimacy in terminal illness: A phenomenological study. Palliat Med 28:438–47.

Tracy JK, Junginger J. 2007. Correlates of lesbian sexual functioning. J Women's Health (Larchmt) 16:499–509.

Weijmar Schultz WCM, Van de Wiel HBM. 2003. Sexuality, intimacy, and gynecological cancer. J Sex and Marital Therapy 29(suppl):121–28.

Wiggins D, Wood R, Granai C, et al. 2007. Sex, intimacy, and the gynecologic oncologist. J Psychosoc Oncol 25:61–70.

Wittenberg A, Gerber J. 2009. Curricula in medical schools: Results from a two-arm study collecting data from patients and medical students. J Sex Med 6:362–68.

World Health Organization. 2020. "Sexual Health." Accessed January 2, 2020. https://www.who.int/health-topics/sexual-health#tab=tab_1.

Zhou ES, Nekhlyudov L, Bober SL. 2015. The primary health care physician and the cancer patient: Tips and strategies for managing sexual health. Transl Androl Urol 4:218–31. doi: 10.3978/j.issn.2223–4683.2014.11.07.

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Chapter 5. Advancing Disease

Amin MB, Edge S, Greene F, et al., eds. 2017. AJCC Cancer Staging Manual. 8th ed. New York: Springer.

Applebaum AJ, Kolva EA, Kulikowski JR, et al. 2014. Conceptualizing prognostic awareness in advanced cancer: A systematic review. J Health Psychol 19:1103–19.

Back AL. 2020. Patient-clinician communication issues in palliative care for patients with advanced cancer. J Clin Oncol 38:866–76.

Childers JW, Back AL, Tulsky JA, et al. 2017. REMAP: A framework for goals of care conversations. J Oncol Pract 13: e844–e850.

Collins ME, Abrahm JL. 2019. Communication challenges at the crossroads of oncology and palliative care: Finding a way forward when clinicians differ on prognosis. J Palliat Care 34:241–44.

D'Aulaire I, D'Aulaire EP. 1962. D'Aulaires' Book of Greek Myths. New York: Bantam Doubleday Dell.

Elk R, Emanuel L, Hauser J, et al. 2020. Developing and testing the feasibility of a culturally based tele-palliative care consult based on the cultural values and preferences of southern, rural African American and white community members: A program by and for the community. Health Equity 4:52–83.

Franklin RW, ed. 1999. The Poems of Emily Dickinson: Reading Edition. Cambridge: Harvard University Press, Belknap Press.

Geerse OP, Lamas DJ, Sanders JJ, et al. 2019. A qualitative study of serious illness conversations in patients with advanced cancer. J Palliat Med 22:773–81.

Gray TF, Temel JS, El-Jawahri A. 2020. Illness and prognostic understanding in patients with hematologic malignancies. Blood Reviews 45:100692. https://doi.org/10.1016/j.blre.2020.100692.

Hui D. 2015. Prognostication of survival in patients with advanced cancer: Predicting the unpredictable? Cancer Control 22:489–97.

Hui D, Maxwell JP, Paiva CE. 2019. Dealing with prognostic uncertainty: The role of prognostic models and websites for patients with advanced cancer. Curr Opin Support Palliat Care 13:360–68.

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Jackson VA, Jacobsen J, Greer JA, et al. 2013. The cultivation of prognostic awareness through the provision of early palliative care in the ambulatory setting: A communication guide. J Palliat Med 16:894–900.

Jacobsen J, Brenner K, Greer JA, et al. 2018. When a patient is reluctant to talk about it: A dual framework to focus on living well and tolerate the possibility of dying. J Palliat Med 21:322–27.

Kübler-Ross E. 1969. On Death and Dying. New York: Collier.

LeBlanc TW, Marron JM, Ganai S, et al. 2019. Prognostication and communication in oncology. J Oncol Pract 15:208–15.

LeBlanc TW, Temel JS, Helft PR. 2018. "How much time do I have?": Communicating prognosis in the era of exceptional responders. ASCO Educational Book, no. 38:787–94.

Lunney JR, Lynn J, Foley DJ, et al. 2003. Patterns of functional decline at the end of life. JAMA 289:2387–92.

Lunney JR, Lynn J, Hogan C. 2002. Profiles of older Medicare decedents. J Am Geriatr Soc 50:1108–12.

Meier DE. 2014. "I don't want Jenny to think I'm abandoning her": Views on overtreatment. Health Aff 33:895–98.

Norton SA, Wittink MN, Duberstein PR, et al. 2019. Family caregiver descriptions of stopping chemotherapy and end-of-life transitions. Support Care Cancer 27:669–75.

Paladino J, Bernacki R, Neville BA, et al. 2019. Evaluating an intervention to improve communication between oncology clinicians and patients with life-limiting cancer: A cluster randomized clinical trial of the Serious Illness Care Program. JAMA Oncol 5:801–9.

Parikh RB, Manz C, Chivers C, et al. 2019. Machine learning approaches to predict 6-month mortality among patients with cancer. JAMA Netw Open 2:e1915997.

Rauch PK, Muriel AC. 2006. Raising an Emotionally Healthy Child When a Parent Is Sick. New York: McGraw-Hill.

Rauch PK, Muriel AC, Cassem NH. 2002. Parents with cancer: Who's looking after the children? J Clin Oncol 20:4399–4402.

Schou KC, Hewison J. 1999. Experiencing Cancer: Quality of Life in Cancer Treatment. Buckingham, UK: Open University Press.

Sekeres MA, Stone RM, Zahrieh D, et al. 2004. Decision-making and quality of life in older adults with acute myeloid leukemia or advanced myelodysplastic syndrome. Leukemia 18:809–16.

© 2022 Johns Hopkins University Press

Simmons CPL, McMillan DC, McWilliams K, et al. 2017. Prognostic tools in patients with advanced cancer: A systematic review. J Pain Symptom Manage 53:962–70.

Stuart B, Danaher T, Awdish R, et al. 2019. Finding hope and healing when cure is not possible. Mayo Clin Proc 94:677–85.

Taylor LJ, Nabozny MJ, Steffens NM, et al. 2017. A framework to improve surgeon communication in high-stakes surgical decisions: Best case / worst case. JAMA Surg 152:531–38.

Temel JS, Gainor JF, Sullivan RJ, et al. 2018. Keeping expectations in check with immune checkpoint inhibitors. J Clin Oncol 36:1654–57.

Weissman, DE. 2003. Determining prognosis in advanced cancer #13a. J Palliat Med 6:433–34.

Chapter 6. Assessing the Patient in Pain

General

Abdo H, Calvo-Enrique L, Lopez JM, et al. 2019. Specialized cutaneous Schwann cells initiate pain sensation. Science 365:695–99.

Anderson KO, Green CR, Payne R. 2009. Racial and ethnic disparities in pain: Causes and consequences of unequal care. J Pain 10:1187–1204.

Barkwell DP. 1991. Ascribed meaning: A critical factor in coping and pain attenuation in patients with cancer-related pain. J Palliat Care 7:5–14.

Bookbinder M, Kiss M, Coyle N, et al. 1995. Improving pain management practices. In Cancer Pain Management, 2nd ed., McGuire DB, Yarbo CH, Ferrell BR (eds.). Sudbury, MA: Jones and Bartlett.

Byock I. 1997. Dying Well: Peace and Possibilities at the End of Life. New York: Riverhead.

Cassell E. 2004. The Nature of Suffering and the Goals of Medicine. 2nd ed. New York: Oxford University Press.

Chisholm-Burns MA, Spivey CA, Gatwood J, et al. 2017. Evaluation of racial and socioeconomic disparities in medication pricing and pharmacy access and services. Am J Health Syst Pharm 74:653–68.

Claton BA, Rabow MW, Branagan L, et al. 2019. Top ten tips palliative care clinicians should know about telepalliative care. J Palliat Med 22:981–85.

© 2022 Johns Hopkins University Press

Cobaugh DJ. 2017. Pharmacy access: Why are minorities' options different? Am J Health Syst Pharm 74:634–35.

Daut RL, Cleeland CS, Flanery RC. 1983. The development of the Wisconsin Brief Pain Questionnaire to assess pain in cancer and other diseases. Pain 17:197–210.

Doan RA and Monk KR. 2019. Glia in the skin activate pain responses (editorial). Science 365:641–42.

Fallon M, Giusti R, Aielli F, et al., on behalf of the ESMO Guidelines Committee. 2018. Management of cancer pain in adult patients: ESMO clinical practice guidelines. Ann Oncol 29(4 suppl) iv166–iv191.

Ferrell BR, Johnston-Taylor EJ, Sattler GR, et al. 1993. Searching for the meaning of pain: cancer patients', caregivers' and nurses' perspectives. Cancer Practice 1:185–94.

Ferrell BR, Rhiner M. 1991. High-tech comfort: Ethical issues in cancer pain management for the 1990s. J Clin Ethics 2:108–12.

Ferrell BR, Rhiner M, Zichi-Cohen M, et al. 1991. Pain as a metaphor for illness, part I: Impact of cancer pain on family caregivers. Oncol Nurs Forum 8:1303–9.

Fink RS, Gates R. 1995. Cultural diversity and cancer pain. In Cancer Pain Management, 2nd ed, McGuire DB, Yarbro CH, Ferrell BR (eds.). Boston: Jones and Bartlett.

Fisch MJ, Kee JW, Weiss M, et al. 2012. Prospective, observational study of pain and analgesic prescribing in medical oncology outpatients with breast, colorectal, lung, or prostate cancer. J Clin Oncol 30:1980–88.

Fischer T, Hosie A, Luckett T, et al. 2019. Strategies for pain assessment in adult patients with delirium: A scoping review. J Pain Symptom Manage 58:487–502.

Fishman B, Pasternak S, Wallenstein SL, et al. 1987. The Memorial Pain Assessment Card: A valid instrument for the evaluation of cancer pain. Cancer 60:1151–58.

Flanagan AY. 2018. Intersection of Pain and Culture. NetCE document released October 1, 2018. https://www.netce.com/coursecontent.php?courseid=1691.

Galer BS, Jensen MP. 1997. Development and preliminary validation of a pain measure specific to neuropathic pain: The neuropathic pain scale. Neurology 48:332–38.

Green CR, Ndao-Brumblay SK, West B, et al. 2005. Differences in prescription opioid analgesic availability: Comparing minority and white pharmacies across Michigan. J Pain 6:689–99.

Herr K. 2011. Pain assessment strategies in older patients. J Pain 12(1 suppl):S3–S13.

© 2022 Johns Hopkins University Press

Herr K, Bursch H, Ersek M, et al. 2010. Use of pain-behavioral assessment tools in the nursing home: Expert consensus recommendations for practice. J Gerontol Nurs 36:18–29.

Hollingshead NA, Ashburn-Nardo L, Stewart JC, et al. 2016. The pain experience of Hispanic Americans: A critical literature review and conceptual model. J Pain 17:513–28.

Hollingshead NA, Meints SM, Miller MM, et al. 2016. A comparison of race-related pain stereotypes held by white and Black individuals. J Appl Soc Psychol 46:718–23.

Lawton AJ, Lee K, Cheville AL, et al. 2019. Assessment and management of patients with metastatic spinal cord compression: A multidisciplinary review. J Clin Oncol 37:61–71.

LeBlanc TW, Kamal AH. 2018. Management of cancer pain. In DeVita, Hellman, and Rosenberg's Cancer: Principles and Practice of Oncology, 11th ed, DeVita VT, Lawrence TS, Rosenberg SA, et al. (eds.). Philadelphia: Wolters Kluwer Health.

Liu JYW, Chung JWY, Wong TKS. 2003. The psychometric properties of Chinese pain intensity verbal rating scale. Acta Anaesthesiol Scand. 47:1013–19.

Marvaldi L, Panayotis N, Alber S, et al. 2020. Importin a3 regulates chronic pain pathways in peripheral sensory neurons. Science 369:842–46.

McCaffery M, Ferrell BR. 1991. How would you respond to these patients in pain? Nursing 21:34–37.

Miaskowski C, Zimmer EF, Barrett KM, et al. 1997. Differences in patients' and family caregivers' perceptions of the pain experience influence patient and caregiver outcomes. Pain 72:217–26.

Minello C, George B, Allano G, et al. 2019. Assessing cancer pain: The first step toward improving patients' quality of life. Supp Care Cancer 27:3095–3104.

Morrison RS, Wallenstein S, Natale DK, et al. 2000. "We don't carry that"—Failure of pharmacies in predominantly nonwhite neighborhoods to stock opioid analgesics. N Engl J Med 342:1023–26.

Narayan MC. 2010. Culture's effects on pain assessment and management. Am J Nurs 110:38–49

Paice JA, Portenoy R, Lacchetti C, et al. 2016. Management of chronic pain in survivors of adult cancers: American Society of Clinical Oncology Practice Guideline. J Clin Oncol 34:3325–45.

Portenoy RK, Ahmed E. 2018. Cancer pain syndromes. Hematol Oncol Clin North Am 32:371–86.

© 2022 Johns Hopkins University Press

Portenoy RK, Hagen NA. 1990. Breakthrough pain: Definition, prevalence and characteristics. Pain 41:273–82.

Portnow J, Lim C, Grossman SA. 2003. Assessment of pain caused by invasive procedures in cancer patients. JNCCN 3:435–39.

Rhiner M, Coluzzi PH. 1995. Family issues influencing management of cancer pain. In Cancer Pain Management, 2nd ed, McGuire DB, Yarbro CH, Ferrell BR (eds.). Boston: Jones and Bartlett.

Robinson-Lane SG, Booker SQ. 2017. Culturally responsive pain management for Black older adults. J Gerontol Nurs Mar 2:1–8.

Swarm RA, Paice JA, Anghelescu DL, et al. 2019. Adult cancer pain, version 3. NCCN Clinical Practice Guidelines in Oncology. J Natl Compr Canc Netw 17:977–1007.

van den Beuken-van Everdingen MH, Hochstenbach LM, Joosten EA, et al. 2016. Update on prevalence of pain in patients with cancer: Systematic review and meta-analysis. J Pain Symptom Manage 51:1070–90.

Warden V, Hurley AC, Volicer L. 2003. Development and psychometric evaluation of the Pain Assessment in Advanced Dementia (PAINAD) scale. J Am Med Dir Assoc 4:9–15.

Yousef MS and Price TJ. 2020. The importins of pain (editorial). Science 369:774–75.

PROs and Clinical Decision Support

Absolom K, Warrington L, Hudson E, et al. 2021. Phase III randomized controlled trial of eRAPID: eHealth intervention during chemotherapy. J Clin Oncol 39:734–47.

Anderson KO, Palos GR, Mendoza TR, et al. 2015. Automated pain intervention for underserved minorities with breast cancer. Cancer 121:1882–90.

Back A, Friedman T, Abrahm J. 2020. Palliative care skills and new resources for oncology practices: Meeting the palliative care needs of patients with cancer and their families. ASCO Oncol Educ Book 40:1–9.

Bakitas M, Lyons KD, Hegel MT, et al. 2009. Effects of a palliative care intervention on clinical outcomes in patients with advanced cancer: The Project ENABLE II randomized controlled trial. JAMA 302:741–49.

Balas EA, Boren SA. 2000. Managing clinical knowledge for health care improvement. In Yearbook of Medical Informatics 2000: Patient-Centered Systems, Bemmel J, McCray AT (eds.). Stuttgart, Germany: Schattauer Verlagsgesellschaft mbH, pp. 65–70.

© 2022 Johns Hopkins University Press

Basch E, Barbera L, Kerrigan CL, et al. 2018. Implementation of patient-reported outcomes in routine medical care. Am Soc Clin Oncol Educ Book May 23:122–34.

Basch E, Deal AM, Dueck AC, et al. 2017. Overall survival results of a trial assessing patient-reported outcomes for symptom monitoring during routine cancer treatment. JAMA 318:197–98.

Basch EM, Teal R, Dueck AC, et al. 2020. Nurse, oncologist, and patient impressions of electronic symptom monitoring via patient-reported outcomes in community oncology practices: Qualitative results from the U.S. national PRO-TECT trial (AFT-39, NCT03249090). Proc ASCO 2020 38(15 suppl):7044.

Basch E, Leahy AB, Dueck AC. 2021. Benefits of digital symptom monitoring with patient-reported outcomes during adjuvant cancer treatment. J Clin Oncol 39:701–2.

Borneman T, Piper BF, Sun VC, et al. 2007. Implementing the fatigue guidelines at one NCCN member institution: Process and outcomes. J Natl Compr Canc Netw 5:1092–1101.

Bright TJ, Wong A, Dhurjati R, et al. 2012. Effect of clinical decision-support systems: A systematic review. Ann Intern Med 157:29–43.

Cooley ME, Lobach DF, Johns E, et al. 2013. Creating computable algorithms for symptom management in an outpatient thoracic oncology setting. J Pain Symptom Manage 46:911–24.e911.

Cooley ME, Nayak MM, Abrahm JL, et al. 2017. Patient and caregiver perspectives on decision support for symptom and quality of life management during cancer treatment: Implications for eHealth. Psychooncology 26:1105–12.

Denis F, Basch E, Septans A-L, et al. 2019. Comparing web-based symptom monitoring vs routine surveillance following treatment for lung cancer. JAMA 321:306–7.

Hoffman KM, Trawalter S, Axt JR, et al. 2016. Racial bias in pain assessment and treatment recommendations, and false beliefs about biological differences between Blacks and whites. Proc Natl Acad Sci 113:4296–4301.

Kamdar M, Centi AJ, Agboola S, et al. 2018. A randomized controlled trial of a novel artificial intelligence-based smartphone application to optimize the management of cancer-related pain. J Clin Oncol 36(34 suppl):76.

Kawamoto K, Houlihan CA, Balas EA, et al. 2005. Improving clinical practice using clinical decision support systems: A systematic review of trials to identify features critical to success. BMJ 330:765.

© 2022 Johns Hopkins University Press

Koleck TA, Dreisbach C, Bourne PE, et al. 2019. Natural language processing of symptoms documented in free-text narratives of electronic health records: A systematic review. JAMIA 29:364–79.

Latoszek-Berendsen A, Tange H, van den Herik HJ, et al. 2010. From clinical practice guidelines to computer-interpretable guidelines: A literature overview. Methods Inf Med 49:550–70.

Lobach DF. 2013. The road to effective clinical decision support: Are we there yet? BMJ 346:f1616.

Lobach DF, Johns EB, Halpenny B, et al. 2016. Increasing complexity in rule-based clinical decision support: The Symptom Assessment and Management Intervention. JMIR Med Inform 4:e36.

Osheroff JA, Pifer EA, Teich JM, et al. 2005. Improving Outcomes with Clinical Decision Support: An Implementer's Guide. Chicago: Healthcare Information and Management Systems Society Press.

Velikova G, Absolom K, Warrington L, et al. 2020. Phase III randomized controlled trial of eRAPID (electronic patient self-Reporting of Adverse-Events: Patient Information and Advice): An eHealth intervention during chemotherapy. Proc ASCO 2020 38(15 suppl):7002.

Wagner LI, Schink J, Bass M, et al. 2015. Bringing PROMIS to practice: Brief and precise symptom screening in ambulatory care. Cancer 121:927–34.

Telehealth

Back A, Friedman T, Abrahm J. 2020. Palliative care skills and new resources for oncology practices: Meeting the palliative care needs of patients with cancer and their families. ASCO Oncol Educ Book 40:1–9.

Bonsignore L, Bloom N, Steinhauser K, et al. 2018. Evaluating the feasibility and acceptability of a telehealth program in a rural palliative care population: TapCloud for palliative care. J Pain Symptom Manage 56:7–14.

Calton BA, Rabow MW, Branagan L, et al. 2019. Top ten tips palliative care clinicians should know about telepalliative care. J Palliat Med 22:981–85.

Fratkin M. 2019. Telemedicine 3.0: How video technology can support people with serious illness. Palliative in Practice (blog), June 12. https://resolutioncare.com/news/telemedicine-3-0-how-video-technology-can-support-people-with-serious-illness/.

© 2022 Johns Hopkins University Press

Shin JY, Kang TI, Noll RB, et al. 2018. Supporting caregivers of patients with cancer: A summary of technology-mediated interventions and future directions. Am Soc Clin Oncol Educ Book Am Soc Clin Oncol Annu Meet 38:838–49.

Worster B, Swartz K. 2017. Telemedicine and palliative care: An increasing role in supportive oncology. Curr Oncol Rep 19:37.

Chapter 7. Pharmacologic Management of Cancer Pain

Brutcher RE, Kurihara C, Bicket MC, et al. 2019. Compounded topical creams to treat localized chronic pain: A randomized controlled trial. Ann Intern Med 170:309–18.

Fallon M, Giusti R, Aielli F, et al, on behalf of the ESMO Guidelines Committee. 2018. Management of cancer pain in adults: ESMO Clinical Practice Guidelines. Ann Oncol 29 (suppl 4):iv166–iv191.

Fisch MJ, Lee JW, Weiss M, et al. 2012. Prospective, observational study of pain and analgesic prescribing in medical oncology outpatients with breast, colorectal, lung, or prostate cancer. J Clin Oncol 30:1980–88.

Henson LA, Maddocks M, Evans C, et al. 2020. Palliative care and the management of common distressing symptoms in advanced cancer: Pain, breathlessness, nausea and vomiting, and fatigue. J Clin Oncol 38:90514.

Mercadante S. 1999. Pain treatment and outcomes for patients with advanced cancer who receive follow-up care at home. Cancer 85:1849–58.

Mercadante S. 2011. Emerging drugs for cancer-related pain. Support Care Cancer 19:1887–93.

National Comprehensive Cancer Network (NCCN). 2020. NCCN Adult Cancer Pain Guideline, version 1. https://www.nccn.org.

Paice JA, Ferrell B. 2011. The management of cancer pain. CA Cancer J Clin 61:157–82.

Schug SA, Zech D, Dorr U. 1990. Cancer pain management according to WHO analgesic guidelines. J Pain Symptom Manage 5:27–32.

van den Beuken-van Everdingen MH, Hochstenbach LM, Joosten EA, et al. 2016. Update on prevalence of pain in patients with cancer: Systematic review and meta-analysis. J Pain Symptom Manage 51:1070–90.

World Health Organization. 2011. Ensuring balance in national policies on controlled substances: Guidance for availability and accessibility of controlled medicines. (Update being planned.) https://www.who.int/medicines/areas/quality_safety/guide_on_pain/en/.

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Zech D, Grond S, Lynch J, et al. 1995. Validation of World Health Organization Guidelines for cancer pain relief: A 10-year prospective study. Pain 63:65–76.

Drug Use in Hepatic Failure

Wilcock A, Charlesworth A, Prentice W, et al. 2019. Prescribing in chronic severe hepatic impairment. J Pain Symptom Manage 58:515–37.

Drug Use in Renal Failure

Sande TA, Laird BJ, Fallon MT. 2017. The use of opioids in cancer patients with renal impairment: A systematic review. Support Care Cancer 25:661–75.

Wilcock A, Charlesworth S, Twycross R, et al. 2017. Prescribing non-opioid drugs in end-stage kidney disease. J Pain Symptom Manage 54:776–87.

NSAIDs

General Discussion

Avril T and Chevet E. 2019. Stress in signaling in pain control (editorial). Science 365:224–25.

Chopra S, Giovanelli P, Alvarado-Vazquez PA, et al. 2019. IRE1alpha-XPB1 signaling in leukocytes controls prostaglandin biosynthesis and pain. Science 365:248.

Magee DJ, Jhanji S, Poulogiannis G, et al. 2019. Nonsteroidal anti-inflammatory drugs and pain in cancer patients: A systematic review and reappraisal of the evidence. Br J Anesth 123:e412–e423.

Vane JR. 1971. Inhibition of prostaglandin synthesis as a mechanism of action for aspirin-like drugs. Nature 231:232–35.

Efficacy

Buckley MM, Brogden RN. 1990. Ketorolac: A review of its pharmacodynamic and pharmacokinetic properties, and therapeutic potential. Drugs 39:86–109.

Eisenberg E, Berkey CS, Carr DB, et al. 1994. Efficacy and safety of non-steroidal anti-inflammatory drugs for cancer pain: A meta-analysis. J Clin Oncol 12:2756–65.

Reynolds LW, Hoo RK, Brill RJ, et al. 2003. The COX-2 specific inhibitor, valdecoxib, is an effective, opioid-sparing analgesic in patients undergoing total knee arthroplasty. J Pain Symptom Manage 25:133–41.

Samala RV, Mellar MP. 2012. Palliative care per rectum. J Palliat Med 15:1038–39.

© 2022 Johns Hopkins University Press

Stuart MJ, Murphy SM, Oski FA, et al. 1972. Platelet function in recipients of platelets from donors ingesting aspirin. N Engl J Med 287:1105–9.

Warren DE. 1996. Practical use of rectal medications in palliative care. J Pain Symptom Manage 11:378–87.

Side Effects and Complications

Chan FFKL, Hung LCT, Suen BY, et al. 2002. Celecoxib versus diclofenac and omeprazole in reducing the risk of recurrent ulcer bleeding in patients with arthritis. N Engl J Med 347:2104–10.

DeMaria AN, Weir MR. 2003. Coxibs—beyond the GI tract: Renal and cardiovascular issues. J Pain Symptom Manage 25(suppl):S41–S49.

Gloth FM. 1996. Concerns with chronic analgesic therapy in elderly patients. Am J Med 101 (suppl 1):9S–24S.

Hawkey CJ, Karrasch KA, Szczepanski L, et al. 1998. Omeprazole compared with misoprostol for ulcers associated with nonsteroidal anti-inflammatory drugs. N Engl J Med 338:727–34.

Laine L. 2003. Gastrointestinal effects of NSAIDs and coxibs. J Pain Symptom Manage 25(suppl):S32–S40.

Samala RV, Mellar MP. 2012. Palliative care per rectum #257. J Palliat Med 15:1038–39.

Scheiman JM. 1996. NSAIDs, gastrointestinal injury, and cytoprotection. Gastroenterol Clin North Am 25:279–98.

Yeomans ND, Tulassay Z, Juhasz L, et al. 1998. A comparison of omeprazole with ranitidine for ulcers associated with nonsteroidal anti-inflammatory drugs. N Engl J Med 338:719–26.

Opioids

Strategies for Minimizing Harm

Balboni TA, Balboni MJ. 2018. The spiritual event of serious illness. J Pain and Symptom Manage 56:816–22.

Bruera E, Del Fabbro E. 2018. Pain management in the era of the opioid crisis. 2018 ASCO Educational Book 38:807–12.

Catechism of the Catholic Church. 1997. 2nd ed. Alexandria, Va.: Pauline, St. Paul Books and Media.

Chi NC, Demiris G. 2017. Family caregivers' pain management in end-of-life care: A systematic review. Am J Hosp Palliat Care 34:470–85.

© 2022 Johns Hopkins University Press

Dowell D, Haegerich TM, Chou R. 2016. CDC guideline for prescribing opioids for chronic pain—United States, 2016. JAMA 315:1624–45.

Fallon M, Giusti R, Aielli F, et al., on behalf of the ESMO Guidelines Committee. 2018. Management of cancer pain in adults: ESMO Clinical Practice Guidelines. Ann Oncol 29 (suppl 4):iv166–iv191.

National Comprehensive Cancer Network (NCCN). 2019. Guidelines for Supportive Care. http://www.nccn.org/professionals/physician_gls/f_guidelines.asp#supportive.

Scarborough BM, Smith CB. 2018. Optimal pain management for patients with cancer in the modern era. CA Cancer J Clin 68:182–96.

Risk Mitigation

Butler SF, Budman SH, Fernandez KC, et al. 2007. Development and validation of the Current Opioid Misuse Measure. Pain 130:144–56.

Dale R, Edwards J, Ballantyne J. 2016. Opioid risk assessment in palliative medicine. J Commun Support Oncol 14:94–100.

Koyyalagunta D, Bruera E, Aigner C, et al. 2013. Risk stratification of opioid misuse among patients with cancer pain using the SOAPP-SF. Pain Med 14:667–75.

Lee J S-J, Hou HM, Edelman AL, et al. 2017. New persistent opioid use among patients with cancer after curative-intent surgery. J Clin Oncol 35:4042–49.

Meltzer EC, Rybin D, Saitz R, et al. 2011. Identifying prescription opioid use disorder in primary care: Diagnostic characteristics of the Current Opioid Misuse Measure. Pain 152:397–402.

Paice JA. 2019. Risk assessment and monitoring of patients with cancer receiving opioid therapy. Oncologist 24:1–5.

Paice JA, Portenoy R, Lacchetti C, et al. 2016. Management of chronic pain in survivors of adult cancers: American Society of Clinical Oncology clinical practice guideline. J Clin Oncol 34:3325–45.

Spahn V, Del Vecchio G, Labuz D, et al. 2017. A nontoxic pain killer designed by modeling of pathological receptor conformations. Science 355:966–69.

Yasin JT, Leader AE, Petok A, et al. 2019. Validity of the Screener and Opioid Assessment for Patients with Pain-Revised (SOAPP-R) in patients with cancer. J Opioid Manage 15:272–74.

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General Guidelines

Fine PG, Portenoy RK, Ad Hoc Expert Panel on Evidence Review and Guidelines for Opioid Rotation. 2009. Establishing "best practices" for opioid rotation: Conclusions of an expert panel. J Pain Symptom Manage 38:418–25.

George B, Minello C, Allano G, et al. 2019. Opioids in cancer-related pain: Current situation and outlook. Support Care Cancer 27:3105–18.

Knotkova H, Fine PG, Portenoy RK. 2009. Opioid rotation: The science and the limitations of the equianalgesic dose table. J Pain Symptom Manage 38:426–39.

Morrison RS, Wallenstein S, Natale DK, et al. 2000. "We don't carry that"—Failure of pharmacies in predominantly nonwhite neighborhoods to stock opioid analgesics. N Engl J Med 342:1023–26.

Moryl N, Coyle N, Foley KM. 2008. Managing an acute pain crisis in a patient with advanced cancer: "This is as much of a crisis as a code." JAMA 299:1457–67.

Strouse TB. 2009. Pharmacokinetic drug interactions in palliative care: focus on opioids. J Palliat Med 12:1043–50.

Thomas SH, Silen W, Cheema F, et al. 2003. Effects of morphine analgesia on diagnostic accuracy in Emergency Department patients with abdominal pain: A prospective, randomized trial. J Am Coll Surg 196:18–31.

Weinberg BBBA, Inturissi CE, Reidenberg B, et al. 1988. Sublingual absorption of selected opioid analgesics. Clin Pharmacol Ther 44:335–42.

Oral Route

CODEINE

Desmeules J, Gascon M-P, Dayer P, et al. 1991. Impact of environmental and genetic factors on codeine analgesia. Eur J Clin Pharmacol 41:23–26.

Sindrup SH, Arendt-Nielson L, Rosen K, et al. 1992. The effect of quinidine on the analgesic effect of codeine. Eur J Clin Pharmacol 42:587–91.

FENTANYL (ORAL/NASAL TRANSMUCOSAL)

Christie JM, Simmonds M, Patt R, et al. 1998. Dose-titration, multicenter study of oral transmucosal fentanyl citrate for the treatment of breakthrough pain in cancer patients using transdermal fentanyl for persistent pain. J Clin Oncol 16:3238–45.

Fine PG, Marcus M, Just De Boer A, et al. 1991. An open label study of oral transmucosal fentanyl citrate (OTFC) for the treatment of breakthrough cancer pain. Pain 45:149–53.

© 2022 Johns Hopkins University Press

Lyseng-Williamson KA. 2011. Fentanyl pectin nasal spray in breakthrough pain in opioid-tolerant adults with cancer. CNS Drugs 25:511–22.

Nicholson B, Agarwala SS. 2011. Opioid delivery in the treatment of cancer breakthrough pain: A review of routes of administration. J Opioid Manage 7:69–79.

Payne R, Caluzzi P, Hart L, et al. 2001. Long-term safety of oral transmucosal fentanyl citrate (OTFC) for breakthrough cancer pain. J Pain Symptom Manage 22:579–83.

Twycross R, Prommer EE, Mihalyo M, et al. 2012. Fentanyl (transmucosal). AHFS 28:08:08. J Pain Symptom Manage 44:131–49.

Zecca E, Brunelli C, Centurioi F, et al. 2017. Fentanyl sublingual tablets versus subcutaneous morphine for the management of severe cancer pain episodes in patients receiving opioid treatment: A double-blind, randomized, noninferiority trial. J Clin Oncol 35:759–65.

Zhang H, Zhang J, Streisand JB. 2002. Oral mucosal drug delivery: Clinical pharmacokinetic and therapeutic applications. Clin Pharmacokinet 41:661–80.

MEPERIDINE

Kaiko RF, Foley KM, Grabinski PY, et al. 1983. Central nervous system excitatory effects of meperidine in cancer patients. Ann Intern Med 13:180–85.

LEVORPHANOL

McNulty JP. 2007. Can levorphanol be used like methadone for intractable refractory pain? J Palliat Med 10:293–96.

Pham TC, Fudin J, Raffa RB. 2015. Is levorphanol a better option than methadone? Pain Med 16:1673–79.

BUPRENORPHINE

Davis MP. 2012. Twelve reasons for considering buprenorphine as a frontline analgesic in the management of pain. J Support Oncol 10:209–19.

Davis MP, Pasternak G, Behm B. 2018. Treating chronic pain: An overview of clinical studies centered on the buprenorphine option. Drugs 78:1211–28.

Johnson RE, Fudala PJ, Payne R. 2005. Buprenorphine: Considerations for pain management. J Pain Symptom Manage 29:297–326.

McCance-Katz EF, Sullivan L, Nallani S. 2010. Drug interactions of clinical importance among the opioids methadone and buprenorphine, and other frequently prescribed medications: A review. Am J Addict 19:4–16.

Pergolizzi JV, Mercadante S, Echaburu AV, et al. 2009. The role of transdermal buprenorphine in the treatment of cancer pain: An expert panel consensus. Curr Med Res Opin 25:1517–28.

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Poulain P, Denier W, Douma J, et al. 2008. Efficacy and safety of transdermal buprenorphine: A randomized placebo-controlled trial in 289 patients with severe pain. J Pain Symptom Manage 36:117–25.

METHADONE

Bach TV, Pan J, Kirstein A, et al. 2016. Use of methadone as an adjuvant medication to low-dose opioids for neuropathic pain in the frail elderly: A case series. J Palliat Med 19:1351–55.

Elsass K, Marks S, Malone N. 2018. Nonoral routes of methadone for analgesia in palliative care #358. J Palliat Med 21:1357–58.

Foley KM. 2003. Opioids and chronic neuropathic pain. N Engl J Med 348:1279–81.

Fürst P, Lundström S, Klepstad P, et al. 2020. The use of low-dose methadone as add-on to regular opioid therapy in cancer-related pain at the end of life: A national Swedish survey in specialized palliative care. J Palliat Med 23:226–32.

Gourevich M. 2009. First do no harm . . . Reduction. Ann Intern Med 150:417–18.

Martyn JAJ, Mao J, Bittner EA. 2019. Opioid tolerance in critical illness. N Engl J Med 380:365–78.

Mastroianni A, Ravaglia G. 2017. Serotonin syndrome due to co-administration of linezolid and methadone. Infez Med 25:263–66.

McCance-Katz EF, Sullivan L, Nallani S. 2010. Drug interactions of clinical importance among the opioids methadone and buprenorphine, and other frequently prescribed medications: A review. Am J Addict 19:4–16.

McPherson ML, Walker KA, Davis MP, et al. 2019. Safe and appropriate use of methadone in hospice and palliative care: Expert consensus white paper. J Pain Symptom Manage 57:635–45.

Muluneh B, Richardson DR, Hicks C, et al. 2019. Trials and tribulations of corrected QT interval monitoring in oncology: Rationale for a practice-changing standardized approach. J Clin Oncol 37:2719–21.

Reddy S, Hui D, El Osta B, et al. 2010. The effect of oral methadone on the QTc interval in advanced cancer patients: A prospective pilot study. J Palliat Med 13:33–38.

Sylvester RK, Schauer C, Thomas J, et al. 2011. Evaluation of methadone absorption after topical administration to hospice patients. J Pain Symptom Manage 41:828–35.

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MORPHINE (SUSTAINED-RELEASE KADIAN [KAPANOL])

Broomhead A, Kerr R, Tester W, et al. 1997. Comparison of a once-a-day sustained-release morphine formulation with standard oral morphine treatment for cancer pain. J Pain Symptom Manage 14:63–73.

Gourlay GK, Cherry DA, Onley MM, et al. 1997. Pharmacokinetics and pharmacodynamics of twenty-four-hourly Kapanol compared to twelve-hourly MS Contin in the treatment of severe cancer pain. Pain 69:295–302.

OXYCODONE (SUSTAINED-RELEASE)

Bruera E, Belzile M, Pituskin E, et al. 1998. Randomized, double-blind, cross-over trial comparing safety and efficacy of oral controlled-release oxycodone with controlled-release morphine in patients with cancer pain. J Clin Oncol 16:3222–29.

Kaiko RF, Benziger DP, Fitzmartin RD, et al. 1996. Pharmacokinetic-pharmaco-dynamic relationships of controlled-release oxycodone. Clin Pharmacol Ther 59:52–61.

Kaiko R, Lacouture P, Hopf K, et al. 1996. Analgesic onset and potency of oral controlled-release (CR) oxycodone and CR morphine. Clin Pharmacol Ther 59:130.

Kaplan R, Parris WC-V, Citron ML, et al. 1998. Comparison of controlled-release and immediate-release oxycodone tablets in patients with cancer pain. J Clin Oncol 16:3230–37.

OXYMORPHONE

Craig DS. 2010. Oxymorphone extended-release tablets (Opana ER) for the management of chronic pain: A practical review for pharmacists. P&T 35:324–57.

Sloan PS. 2008. Review of oral oxymorphone in the management of pain. Ther Cli Risk Manag 4:777–87.

TAPENTADOL

Mercadante S. 2017. The role of tapentadol as a strong opioid in cancer pain management: A systematic and critical review. Curr Med Res Opin. 33:1965–69.

Wade WE, Spruill WJ. 2009. Tapentadol hydrochloride: A centrally acting oral analgesic. Clin Therapeutics 31:2804–18.

TRAMADOL

Barakat A. 2019. Revisiting tramadol: A multi-modal agent for pain management. CNS Drugs 33:481–501.

Mahlberg R, Kunz D, Sasse J, et al. 2004. Serotonin syndrome with tramadol and citalopram. Am J Psychiatry 161:1129.

© 2022 Johns Hopkins University Press

Topical Opioids

Paice JA, Von Roenn JH, Hudgins JC, et al. 2008. Morphine bioavailability from a topical gel formulation in volunteers. J Pain Symptom Manage 35:314–20.

Stein C. 1995. The control of pain in peripheral tissue by opioids. N Engl J Med 332:1685–90.

Zeppetella G, Paul J, Ribeiro MDC. 2003. Analgesic efficacy of morphine applied topically to painful ulcers. J Pain Symptom Manage 25:555–58.

TRANSDERMAL FENTANYL

Ahmedzai S, Brooks D, on behalf of the TTS-Fentanyl Comparative Trial Group. 1997. Transdermal fentanyl versus sustained-release oral morphine in cancer pain: Preference, efficacy, and quality of life. J Pain Symptom Manage 13:254–61.

Donner B, Zena M, Tryba M, et al. 1996. Direct conversion from oral morphine to transdermal fentanyl: A multicenter study in patients with cancer pain. Pain 64:527–34.

Kornick CA, Santiago-Palma J, Khojainova N, et al. 2001. A safe and effective method for converting cancer patients from intravenous to transdermal fentanyl. Cancer 92:3056–61.

Payne R, Mathias SD, Pasta DJ, et al. 1998. Quality of life and cancer pain: Satisfaction and side effects with transdermal fentanyl versus oral morphine. J Clin Oncol 16:1588–93.

Portenoy RK, Mehta Z, Ahmed E. 2013. Cancer pain management with opioids: Optimizing analgesia. https://www.uptodate.com/contents/cancer-pain-management-with-opioids-optimizing-analgesia.

Portenoy RK, Southam MA, Gupta SK, et al. 1993. Transdermal fentanyl for cancer pain: Repeated dose pharmacokinetics. Anesthesiology 78:36–43.

Tassinari D, Santori S, Tamburini E, et al. 2008. Adverse effects of transdermal opiates treating moderate-severe cancer pain in comparison to long-acting morphine: A meta-analysis and systematic review of the literature. J Palliat Med 11:492–501.

Tassinari D, Santori S, Tamburini E, et al. 2009. Transdermal fentanyl as a front-line approach to moderate-severe pain: A meta-analysis of randomized clinical trials. J Palliat Care 25:172–80.

Varvel JR, Shafer SL, Hwang SS, et al. 1989. Absorption characteristics of transdermally administered fentanyl. Anesthesiology 70:928–34.

Rectal Route

Bruera E, Fainsinger R, Spachynski K, et al. 1995. Clinical efficacy and safety of a novel controlled release morphine suppository and subcutaneous morphine in cancer pain: A randomized evaluation. J Clin Oncol 13:1520–27.

© 2022 Johns Hopkins University Press

Davis MP, Walsh D, LeGrand SB, et al. 2002. Symptom control in cancer patients: The clinical pharmacology and therapeutic role of suppositories and rectal suspensions. Support Care Cancer 10:117–38.

De E, Gomery P, Rosenberg LB. 2017. Palliation of bladder spasms #337. J Palliat Med 20:1158–59.

De Conno F, Ripamonti C, Saiti L, et al. 1995. Role of rectal route in treating cancer pain: A randomized crossover clinical trial of oral versus rectal morphine administration in opioid-naive cancer patients with pain. J Clin Oncol 13:1004–8.

Leow KP, Cramond T, Smith MT. 1995. Pharmacokinetics and pharmacodynamics of oxycodone when given intravenously and rectally to adult patients with cancer pain. Anesth Analg 80:296–302.

Samala RV, Davis MP. 2012. Palliative care per rectum #257. J Palliat Med 15:1038–39.

Watanabe S, Belzile M, Kuehn N, et al. 1996. Capsules and suppositories of methadone for patients on high-dose opioids for cancer pain: Clinical and economic considerations. Cancer Treat Rev 22:131–36.

Intravenous Route

Citron ML, Kaira J-M, Seltzer VL, et al. 1992. Patient-controlled analgesia for cancer pain: A long-term study of inpatient and outpatient use. Cancer Invest 10:335–41.

Coyle N, Adelhardt J, Foley KM, et al. 1990. Character of terminal illness in the advanced cancer patient: Pain and other symptoms during the last four weeks of life. J Pain Symptom Manage 5:83–93.

Portenoy RK, Moulin DE, Rogers A, et al. 1986. IV infusion of opioids for cancer pain: Clinical review and guidelines for use. Cancer Treat Rep 70:575–81.

Subcutaneous Route

Bruera E, Fainsinger R, Moore M, et al. 1991. Local toxicity with subcutaneous methadone: Experience of two centers. Pain 45:141–45.

Coyle N, Cherny NI, Portenoy RK. 1994. Subcutaneous opioid infusions in the home. Oncology 8:21–27.

Fürst P, Lundström S, Klepstad P, et al. 2020. The use of low-dose methadone as add-on to regular opioid therapy in cancer-related pain at the end of life: A national Swedish survey in specialized palliative care. J Palliat Med 23:226–32.

© 2022 Johns Hopkins University Press

McPherson ML, Walker KA, Davis MP, et al. 2019. Safe and appropriate use of methadone in hospice and palliative care: Expert consensus white paper. J Pain Symptom Manage 57:635–45.

Spinal Opioids / Anesthetics

Careskey H, Narang S. 2018. Interventional anesthetic methods for pain in hematology/oncology patients. Hematol Oncol Clin North Am 32:433–45.

Du Pen SL, Kharasch ED, Williams A, et al. 1992. Chronic epidural bupivacaine-opioid infusion in intractable cancer pain. Pain 49:293–300.

Du Pen S, Williams A. 1994. The clinical dilemma of systemic to epidural morphine conversion: Development of a conversion tool for cancer pain patients. Pain 56:113–18.

Eisenach JC, Du Pen S, Dubois M, et al., the Epidural Clonidine Study Group. 1995. Epidural clonidine analgesia for intractable cancer pain. Pain 61:391–98.

Johnson SM, Duggan AW. 1981. Evidence that opiate receptors at the substantia gelatinosa contribute to the depression by intravenous morphine of the spinal transmission of impulses in the unmyelinated primary afferents. Brain Res 207:223–28.

Kitahata LM, Collins JG. 1981. Spinal action of narcotic analgesics. Anesthesiology 54:153–63.

Narang S, Weisheipl A, Ross EL, eds. 2016. Surgical Pain Management: A Complete Guide to Implantable and Interventional Pain Therapies. Oxford: Oxford University Press.

Smith TJ, Coyne P, Staats PS, et al. 2003. Implantable drug delivery system (IDDA) provides sustained pain control, less drug toxicity, and better survival compared to medical management (CMM) (abstr #2967). Proc Am Soc Clin Oncol 22:738.

Smith TJ, Staats PS, Deer T, et al. 2002. Randomized clinical trial of an implantable drug delivery system compared with comprehensive medical management for refractory pain: Impact on pain, drug related toxicity, and survival. J Clin Oncol 20:4040–49.

Opioid-Induced Side Effects

CONSTIPATION

Becker G, Blum HE. 2009. Novel opioid antagonists for opioid-induced bowel dysfunction and postoperative ileus. Lancet 373:1198–1206.

Blair HA. 2019. Naldemedine: A review in opioid-induced constipation. Drugs 79:1241–47.

Bruera E, Suarez-Almazor M, Velasco A, et al. 1994. The assessment of constipation in terminal cancer patients admitted to a palliative care unit: A retrospective review. J Pain Symptom Manage 9:515–19.

© 2022 Johns Hopkins University Press

Chamberlain BH, Cross K, Winston JL, et al. 2009. Methylnaltrexone treatment of opioid-induced constipation in patients with advanced illness. J Pain Symptom Manage 8:683–90.

Cleveland MJB, Flavin DP, Ruben RA, et al. 2001. New polyethylene glycol laxative for treatment of constipation in adults: A randomized, double-blind, placebo-controlled study. South Med J 94:478–81.

Currow DC, Coughlan M, Fardell B, et al. 1997. Use of ondansetron in palliative medicine. J Pain Symptom Manage 13:302–7.

Fine PG, Chen Y-W, Wittbrodt E, et al. 2019. Impact of opioid-induced constipation on healthcare resource utilization and costs for cancer patients receiving continuous opioid therapy. Supp Care Cancer 27:687–96.

Ginex PK, Hanson BJ, LeFebvre KB, et al. 2020. Management of opioid-induced and non-opioid-related constipation in patients with cancer: systematic review and meta-analysis. Oncol Nurs Forum 47:E211–24.

Jones R, Prommer E, Backstedt D. 2016. Naloxegol: A novel therapy in the management of opioid-induced constipation. Am J Hosp Palliat Care 33:875–80.

Kosten TR, O'Connor PG. 2003. Management of drug and alcohol withdrawal. N Engl J Med 348:1786–95.

Lee-Robichaud H, Thomas K, Morgan J, et al. 2010. Lactulose versus polyethylene glycol for chronic constipation. Cochrane Database Syst Rev 7:CD007570.

McNicol E, Boyece DB, Schumann R, et al. 2008. Efficacy and safety of mu-opioid antagonists in the treatment of opioid-induced bowel dysfunction: Systematic review and meta-analysis of randomized controlled trials. Pain Med 9:634–59.

Miner PB, Koltun WD, Weiner GJ, et al. 2017. A randomized phase III clinical trial of plecanatide, a uroguanylin analog, in patients with chronic idiopathic constipation. Am J Gastroenterol 112:613–21.

Nelson AD, Camilleri M. 2016. Opioid-induced constipation: advances and clinical guidance. Ther Adv Chronic Dis 7:121–34.

Pasay D, Guirguis M, Shkrobot R, et al. 2017. Association of dissemination of an educational communication tool with docusate administration. JAMA Intern Med 177:1433–36.

Portenoy RK, Thomas J, Moehl Boatwright ML, et al. 2008. Subcutaneous methylnaltrexone for the treatment of opioid-induced constipation in patients with advanced illness: A double-blind, randomized, parallel group, dose-ranging study. J Pain Symptom Manage 35:458–68.

© 2022 Johns Hopkins University Press

Teuri U, Vapaatalo H, Korpela R. 1999. Fructooligosaccharides and lactulose cause more symptoms in lactose maldigesters and subjects with pseudohypolactasia than in control lactulose digesters. Am J Clin Nutr 69:973–79.

Walters JB, Montagnini M. 2010. Current concepts in the management of opioid-induced constipation. J Opioid Manage 6:435–44.

Webster LR, Brewer RP, Lichtien P, et al. 2018. Efficacy of lubiprostone for the treatment of opioid-induced constipation, analyzed by opioid class. Pain Med 19:1195–1205.

NAUSEA

Currow DC, Coughlan M, Fardell B, et al. 1997. Use of ondansetron in palliative medicine. J Pain Symptom Manage 13:302–7.

Ferris FD, Kerr IG, Sone M, et al. 1991. Transdermal scopolamine use in the control of narcotic-induced nausea. J Pain Symptom Manage 6:389–93.

SEDATION

Boyer EW. 2012. Management of opioid analgesic overdose. N Engl J Med 367:146–55.

Brasure M, Fuchs E, MacDonald R, et al. 2016. Psychological and behavioral interventions for managing insomnia disorder: An evidence report for a clinical practice guideline by the American College of Physicians. Ann Intern Med 165:113–24.

Cheng J, Groninger H. 2012. Modafinil #259 (Fast Facts). J Palliat Med 15:1388–89.

Kreeger L, Duncan A, Cowap J. 1996. Psychostimulants used for opioid-induced drowsiness. J Pain Symptom Manage 11:1–2.

Kurita GP, Sjøgren P, Ekholm O, et al. 2011. Prevalence and predictors of cognitive dysfunction in opioid-treated patients with cancer: A multinational study. J Clin Oncol 28:1297–1303.

Mailis-Gagnon A, Lakha SF, Furlan A, et al. 2012. Systematic review of the quality and generalizability of studies on the effects of opioid on driving and cognitive/psychomotor performance. Clin J Pain 28:542–55.

Pergolizzi JV, Jr., Taylor R, LeQuang JA, et al. 2018. Driving under the influence of opioids: What prescribers should know. J Opioid Manage 14:415–27.

Prommer E. 2006. Modafinil: Is it ready for prime time? J Opioid Manage 2:130–36.

Rozans M, Dreisbach A, Lertora JJL, et al. 2002. Palliative uses of methylphenidate in patients with cancer: A review. J Clin Oncol 20:335–39.

Ryan SA, Dunne RB. 2018. Pharmacokinetic properties of intranasal and injectable formulations of naloxone for community use: A systematic review. Pain Manag 8:231–45.

© 2022 Johns Hopkins University Press

Sanft T, Tevaarwerk A, Denlinger CS, et al. 2021. Survivorship, version 3. NCCN Clinical Practice Guidelines in Oncology. https://www.nccn.org/guidelines/guidelines-detail?category=3&id=1466.

Wilwerding MB, Loprinzi CL, Mailliard JA, et al. 1995. A randomized crossover evaluation of methylphenidate in cancer patients receiving strong narcotics. Support Care Cancer 3:135–38.

RESPIRATORY DEPRESSION

Boyer EW. 2012. Management of opioid analgesic overdose. N Engl J Med 367:146–55.

Legrand SB, Estfan B, Walsh D, et al. 2004. Parenteral opioid dose titration and ventilatory function. J Clin Oncol 22(14S):8005.

Ryan SA, Dunne RB. 2018. Pharmacokinetic properties of intranasal and injectable formulations of naloxone for community use: A systematic review. Pain Manag 8:231–45.

MYOCLONUS

Hagen N, Swanson R. 1997. Strychnine-like multifocal myoclonus and seizures in extremely high dose opioid administration: Treatment strategies. J Pain Symptom Manage 14:51–58.

PRURITUS

Jannuzzi RG. 2016. Nalbuphine for treatment of opioid-induced pruritus: A systematic review of the literature. Clin J Pain 32:87–93.

McNicol E, Horowicz-Mehler N, Fisk RA, et al. 2003. Management of opioid side-effects in cancer-related and chronic noncancer pain: A systematic review. J Pain 4:231–56.

Portenoy RK, Mehta Z, Ahmed E. 2019. Cancer pain management with opioids: Optimizing analgesia. https://www.uptodate.com/contents/cancer-pain-management-with-opioids-optimizing-analgesia.

Zylicz Z, Smits C, Prajnik M. 1998. Paroxetine for pruritus in advanced cancer. J Pain Symptom Manage 16:121.

Adjuvant Analgesics

Neuropathic Adjuvants

GENERAL DISCUSSIONS

Gilron I, Baron R, Jensen T. 2015. Neuropathic pain: Principles of diagnosis and treatment. Mayo Clin Proc 90:532–45.

© 2022 Johns Hopkins University Press

Rekand T, Merete Hagen E, Granning M. 2012. Chronic pain following spinal cord injury. Tidsskr Nor Legeforen 132:974–79.

Samala RV, Davis MP. 2012. Palliative care per rectum #257. J Palliat Med 15:1038–39.

Solomon LR. 2016. Functional B12 deficiency in advanced malignancy: Implications for the management of neuropathy and neuropathic pain. Support Care Cancer 24:3489–94.

Warren DE. 1996. Practical use of rectal medications in palliative care. J Pain Symptom Manage 11:378–87.

ANTIDEPRESSANTS

Gilron I, Bailey JM, Tu D, et al. 2009. Nortriptyline and gabapentin, alone and in combination for neuropathic pain: A double-blind, randomised crossover trial. Lancet 374:1252–61.

Guan J, Tanaka S, Kawakami K. 2016. Anticonvulsants or antidepressants in combination pharmacotherapy for treatment of neuropathic pain in cancer patients: A systematic review and meta-analysis. Clin J Pain 32:719–25.

Moore RA, Aldington DS, Cole P, et al. 2015. Amitriptyline for neuropathic pain in adults. Cochrane Database Syst Rev; CD008242. doi: 10.1002/14651858.CD008242.pub3

TREATMENT-INDUCED NEUROPATHY

Durand JP, Deplanque G, Montheil V, et al. 2012. Efficacy of venlafaxine for the prevention and relief of oxaliplatin-induced acute neurotoxicity: Results of EFFOX, a randomized, double blind, placebo-controlled phase III trial. Ann Oncol 23:200–205.

Emery EC, Wood JN. 2018. Gaining on pain. N Engl J Med 379:485–87.

Fallon MT, Storey DJ, Dirshan A, et al. 2015. Cancer treatment-related neuropathic pain: Proof of concept study with menthol-a TRPM8 agonist. Support Care Cancer 23:2769–77.

Glimelius B, Manojlovic N, Pfeiffer P, et al. 2018. Persistent prevention of oxaliplatin-induced peripheral neuropathy using calmangafodipir (PledOx): A placebo-controlled randomized phase II study (PLIANT). Acta Oncol 57:393–402.

Greenlee H, Hershman DL, Shi Z, et al. 2017. BMI, lifestyle factors and taxane-induced neuropathy in breast cancer patients: The Pathways study. J Natl Cancer Inst 109:1–8.

Grisold W, Cavaletti G, Windebank AJ. 2012. Peripheral neuropathies from chemotherapeutics and targeted agents: Diagnosis, treatment, and prevention. Neuro-Onc 14:iv45–iv54.

Hanai A, Ishiguro H, Sozu T, et al. 2018. Effects of cryotherapy on objective and subjective symptoms of paclitaxel-induced neuropathy: Prospective self-controlled trial. JNCI 110:141–48.

© 2022 Johns Hopkins University Press

Hershman DL, Lacchetti C, Dworkin RH, et al. 2014. Prevention and management of chemotherapy-induced peripheral neuropathy in survivors of adult cancers: American Society of Clinical Oncology clinical practice guideline. J Clin Oncol 32:1941–67.

Hershman DL, Till C, Wright JD, et al. 2016. Comorbidities and risk of chemotherapy-induced peripheral neuropathy among participants 65 years or older in Southwest Oncology Group clinical trials. J Clin Oncol 34:3014–22.

Jiang J, Shen Q, Rong X, et al. 2019. Effect of pregabalin on radiotherapy-related neuropathic pain in patients with head and neck cancer: A randomized controlled trial. J Clin Oncol 37:135–43.

Kleckner I, Kamen CS, Gewandter JS, et al. 2018. Effects of exercise during chemotherapy on chemotherapy-induced peripheral neuropathy: A multicenter, randomized trial. Support Care Cancer 26:1019–28.

Loprinzi CL, Lacchetti C, Bleeker J, et al. 2020. Prevention and management of chemotherapy-induced peripheral neuropathy in survivors of adult cancers: ASCO guideline update. J Clin Oncol 38:3325–48.

Loprinzi CL, Le-Rademacher J, Majithia N, et al. 2020. Scrambler therapy for chemotherapy neuropathy: A randomized phase II trial. Support Care Cancer 28:1183–97.

Loprinzi CL, Reeves BN, Dakhil SR, et al. 2011. Natural history of paclitaxel-associated acute pain syndrome: Prospective cohort study NCCTG N08C1. J Clin Oncol 29:1472–78.

Majithia N, Temkin SM, Ruddy KJ, et al. 2016. National Cancer Institute-supported chemotherapy-induced peripheral neuropathy trials: Outcomes and lessons. Support Care Cancer 24:1439–47.

Reyad RM, Omran AF, Abbas DN, et al. 2019. The possible preventive role of pregabalin in postmastectomy pain syndrome: A double-blinded randomized controlled trial. J Pain Symptom Manage 57:1–9.

Rosenbaek F, Holm HS, Hjelmborg JvB, et al. 2020. Effect of cryotherapy on dose of adjuvant paclitaxel in early-stage breast cancer. Support Care Cancer 28:3763–69.

Saito Y, Kobayashi M, Yamada T, et al. 2020. Efficacy of additional dexamethasone administration for the attenuation of paclitaxel-associated acute pain syndrome. Support Care Cancer 28:221–27.

Stockstill K, Doyle TM, Yan X, et al. 2018. Dysregulation of sphingolipid metabolism contributes to bortezomib-induced neuropathic pain. J Exp Med 215:1301–13.

Stout NL. 2017. Expanding the perspective on chemotherapy-induced peripheral neuropathy management. J Clin Oncol 35:2593–94.

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Stubblefield MD, Burstein HJ, Burton AW, et al. 2009. NCCN task force report: Management of neuropathy in cancer. J Natl Compr Canc Netw 7:S1–S26.

Sundar R, Bandia A, Tan SSH, et al. 2017. Limb hypothermia for preventing paclitaxel-induced peripheral neuropathy in breast cancer patients: A pilot study. Front Oncol 6:274.

Teoh D, Smith TJ, Song M, et al. 2018. Care after chemotherapy: Peripheral neuropathy, cannabis for symptom control, and mindfulness. 2018 ASCO Educational Book 38:469–79.

Wang J, Udd KA, VIdisheva A, et al. 2016. Low serum vitamin D occurs commonly among multiple myeloma patients treated with bortezomib and/or thalidomide and is associated with severe neuropathy. Support Care Cancer 24:3105–10.

Zimmermann C, Atherton PJ, Pachman D, et al. 2016. MC11C4: A pilot, randomized, placebo-controlled double-blind study of venlafaxine to prevent oxaliplatin-induced neuropathy. Support Care Cancer 24:1071–78.

NK-1 RECEPTOR ANTAGONISTS

Dulin JD, Coyne PJ, Bohm NM, et al. 2017. Fosaprepitant for the management of refractory pain in a patient with cancer-related dermatomyositis. J Palliat Med 20:1415–19.

CORTICOSTEROIDS

Cooley L, Dendle C, Wolf J, et al. 2014. Consensus guidelines for diagnosis, prophylaxis and management of Pneumocystis jirovecii pneumonia in patients with haematological and solid malignancies. Int Med J 44:1350–63.

Haywood A, Good P, Khan S, et al. 2015. Corticosteroids for the management of cancer-related pain in adults. Cochrane Database Syst Rev 24:CDO010756.

Paulson O, Aass N, Kaasa S, et al. 2013. Do corticosteroids provide analgesic effects in cancer patients? A systematic literature review. J Pain Symptom Manage 46:96–105.

SPINAL CORD METASTASES AND COMPRESSION

Abrahm JL, Banffy MB, Harris MB. 2008. Spinal cord compression in patients with advanced metastatic cancer: “All I care about is walking and living my life.” JAMA 299:937–46.

Lawton AJ, Lee KA, Cheville AL, et al. 2019. Assessment and management of patients with metastatic spinal cord compression: A multidisciplinary review. J Clin Oncol 37:61–71.

Maranzano E, Latini P, Beneventi S, et al. 1996. Radiotherapy without steroids in selected metastatic spinal cord compression patients: A phase II trial. J Clin Oncol 19:179–83.

Patchell R, Tibbs PA, Regine WF, et al. 2005. Direct decompressive surgical resection in the treatment of spinal cord compression caused by metastatic cancer: A randomized trial. Lancet 366:643–48.

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Rades D, Huttenlocher S, Dunst J, et al. 2010. Matched pair analysis comparing surgery followed by radiotherapy and radiotherapy alone for metastatic spinal cord compression. J Clin Oncol 28:3597–3604.

Rose PS, Laufer I, Boland PJ, et al. 2009. Risk of fracture after single fraction image-guided intensity-modulated radiation therapy to spinal metastases. J Clin Oncol 27:5075–79.

Sahgal A, Myrehaug SD, Liva S, et al. 2020. CCTG SC.24/TROG 17.06: A randomized phase II/III study comparing 24Gy in 2 stereotactic body radiotherapy (SBRT) fractions versus 20Gy in 5 conventional palliative radiotherapy (CRT) fractions for patients with painful spinal metastases. ASTRO Proceedings, Abstract LBA 2.

ACUTE HERPETIC ZOSTER INFECTION AND POST-HERPETIC NEURALGIA

Thakur R, Phillips A. 2012. Treating herpes zoster and post-herpetic neuralgia: An evidence-based approach. J Fam Pract 61(suppl):S9–S15.

Thomas B, Farquhar-Smith P. 2011. Extended-release gabapentin in post-herpetic neuralgia. Expert Opinion on Pharmacotherapy 12:2565–71.

Whitley RJ, Weiss H, Gnann JW, et al., and the National Institute of Allergy and Infectious Diseases Collaborative Antiviral Study Group. 1996. Acyclovir with and without prednisone for the treatment of herpes zoster. Ann Intern Med 125:376–83.

ANTICONVULSANTS

Attal N, Cruccu G, Baron R. 2010. EFNS Guidelines on the pharmacologic treatment of neuropathic pain: 2010 revision. Eur J Neurology 17:1113–e88.

Gill D, Derry S, Wiffen PJ, et al. 2011. Valproic acid and sodium valproate for neuropathic pain and fibromyalgia in adults. Cochrane Database Syst Rev 10: CD009183. doi: 10.1002/14651858.CD009183.pub2.

Gilron I, Baron R, Jensen T. 2015. Neuropathic pain: Principles of diagnosis and treatment. Mayo Clin Proc 90:532–45.

Mersfelder TL, Nichols WH. 2016. Gabapentin: Abuse, dependence, and withdrawal. Ann Pharmacother 50:229–33.

CANNABINOIDS

Abrams DI, Jay CA, Shade SB, et al. 2007. Cannabis in painful HIV-associated sensory neuropathy: A randomized placebo-controlled trial. Neurology 68:515–21.

Boehnke KF, Clauw D. 2019. Brief commentary: cannabinoid dosing for chronic pain management. Ann Intern Med 170:118.

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Ellis RJ, Toperoff W, Vaida F, et al. 2009. Smoked medicinal cannabis for neuropathic pain in HIV: A randomized, crossover clinical trial. Neuropsychopharmacology 34:672–80.

Hill KP. 2015. Medical marijuana for treatment of chronic pain and other medical and psychiatric problems: A clinical review. JAMA 313:2474–83.

Johnson JR, Burnell-Nugent M, Lossignol D, et al. 2010. Multicenter, double-blind, randomized placebo-controlled, parallel-group trial of the efficacy, safety, and tolerability of the THC:CBD extract and THC extract in patient with intractable cancer-related pain. J Pain Symptom Manage 39:167–79.

Jugl S, Keshwani S, Adkins L, et al. 2020. A systematic review of evidence for cannabis and cannabinoids as adjuvant therapy in palliative and supportive oncology care. Proc ASCO 38:12091.

Lapoint J, Meyer S, Yu CK, et al. 2018. Cannabinoid hyperemesis syndrome: Public health implications and a novel model treatment guideline. West J Emerg Med 19:380–86.

Lynch ME, Cesar-Rittenberg P, Hohmann AG. 2014. A double-blind, placebo-controlled, crossover pilot trial with extension using an oral mucosal cannabinoid extract for treatment of chemotherapy-induced neuropathic pain. J Pain Symptom Manage 47:166–73.

Monte AA, Shelton SK, Mills E, et al. 2019. Acute illness associated with cannabis use, by route of exposure: An observational study. Ann Intern Med 170:531–37.

Mücke M, Phillips T, Radbruch L, et al. 2018. Cannabis-based medicines for chronic neuropathic pain in adults. Cochrane Database Syst Rev 3:CD012182.

National Academies of Science, Engineering and Medicine. 2017. Health Effects of Cannabis and Cannabinoids: The Current State of Evidence and Recommendations for Research. Washington, DC: National Academies Press.

Nugent SM, Morasco BJ, O'Neil ME, et al. 2017. The effects of cannabis among adults with chronic pain and an overview of general harms: A systematic review. Ann Intern Med 167:319–31.

Portenoy RK, Ganae-Motan ED, Allende S, et al. 2012. Nabiximols for opioid-treated cancer patients with poorly controlled chronic pain: A randomized, placebo-controlled, graded-dose trial. J Pain 13:438–49.

Steele G, Arneson T, Zylla D. 2019. A comprehensive review of cannabis in patients with cancer: Availability in the USA, general efficacy, and safety. Curr Oncol Rep 21:10.

Strouse T. 2016. Cannabinoids in cancer treatment settings. J Commun Support Oncol 14:1–5.

© 2022 Johns Hopkins University Press

Whiting PF, Wolff RF, Deshpande S, et al. 2015. Cannabinoids for medical use: A systematic review and meta-analysis. JAMA 313:2456–73.

KETAMINE

Bell RF, Eccleston C, Kalso E. 2017. Ketamine as adjuvant to opioids for cancer pain. Cochrane Database Syst Rev 6:CD003351.

Loveday BA, Sindt J. 2015. Ketamine protocol for palliative care in cancer patients with refractory pain. J Adv Pract Oncol 6:555–61.

Mercadante S, Arouri E, Tirelli W, et al. 2000. Analgesic effect of intravenous ketamine in cancer patients on morphine therapy: A randomized, controlled, double-blind, crossover, double dose study. J Pain Symptom Manage 4:246–51.

Moryl N, Coyle N, Foley KM. 2008. Managing an acute pain crisis in a patient with advanced cancer: "This is as much of a crisis as a code." JAMA 299:1457–67.

Peltoniemi MA, Hagelberg NM, Olkkola KT, et al. 2016. Ketamine: A review of clinical pharmacokinetics and pharmacodynamics in anesthesia and pain therapy. Clin Pharmacokinet 55:1059–77.

Quibell R, Fallon M, Mihalyo M, et al. 2015. Ketamine. J Pain Symptom Manage 50:268–78.

Yang C-Y, Wong C-S, Chang J-Y. 1996. Intrathecal ketamine reduces morphine requirements in patients with terminal cancer pain. Can J Anaesth 43:379–83.

LIDOCAINE INFUSION

Ferrini R. 2000. Parenteral lidocaine for severe intractable pain in six hospice patients continued at home. J Palliat Med 3:193–200.

Ferrini R, Paice J. 2004. How to initiate and monitor infusional lidocaine for severe and/or neuropathic pain. J Support Oncol 2:90–94.

Kintzel PE, Knol JD, Roe G. 2019. Intravenous lidocaine administered as twice daily bolus and continuous infusion for intractable cancer pain and wound care pain. J Palliat Med 22:343–47.

Mao J, Chen LL. 2000. Systemic lidocaine for neuropathic pain relief. Pain 87:7–17.

Sharma S, Rajagopal MR, Palat G, et al. 2009. A phase II pilot study to evaluate use of intravenous lidocaine for opioid-refractory pain in cancer patients. J Pain Symptom Manage 37:85–93.

© 2022 Johns Hopkins University Press

DEXMEDETOMIDINE

Hofherr M, Abrahm JL, Rickerson E. 2020. Dexmedetomidine: A novel strategy for patients with intractable pain, opioid-induced hyperalgesia, or delirium at the end of life. J Palliat Med 23:1515–17.

Mupamombe CT, Luczkiewicz D, Kerr C. 2019. Dexmedetomidine as an option for opioid refractory pain in the hospice setting. J Palliat Med 22:1478–81.

Adjuvants for Bone Pain

BONE-MODIFYING AGENTS (BIPHOSPHONATES AND RANK-LIGAND INHIBITORS)

DeMille DM, Piscitelli M, Ocker A, et al. 2014. Vitamin D deficiency in the oncology setting. J Commun Support Oncol 12:13–19.

Fournier PG, Stressing V, Ebetino FH, Clézardin P. 2010. How do bisphosphonates inhibit bone metastases in vivo. Neoplasia 12:571–78.

Ripamonti CI, Napoli N. 2020. Are we ready to use teriparatide to treat medication-related osteonecrosis of the jaw in clinical practice? J Clin Oncol 38:2949–51.

Sim I-W, Borromeo GL, Tsao C, et al. 2020. Teriparatide promotes bone healing in medication-related osteonecrosis of the jaw: A placebo-controlled, randomized trial. J Clin Oncol 38:2971–80.

Stark Toller C, Charlesworth S, Mihalyo M, et al. 2019. Bisphosphonates. J Pain Symptom Manage 57:1018–30.

Van Poznak CH, Temin S, Yee GC, et al. 2011. American Society of Clinical Oncology Executive Summary of the clinical practice guideline update on the role of bone-modifying agents in metastatic breast cancer. J Clin Oncol 29:1221–27.

von Moos R, Skacel T. 2012. Denosumab: First data and ongoing studies of prevention of bone metastases. Recent Results Cancer Res 192:187–96.

von Moos R, Body JJ, Egerdie B, et al. 2013. Pain and health-related quality of life in patient with advanced solid tumours and bone metastases: Integrated results from three randomized, double-blind studies of denosumab and zoledronic acid. Support Care Cancer 21:3497–3507.

Yarom N, Shapiro CL, Peterson DE, et al. 2019. Medication-related osteonecrosis of the jaw: Multinational Association of Supportive Care in Cancer (MASCC) / International Society of Oral Oncology (ISOO) / ASCO clinical practice guideline. J Clin Oncol 37:2270–90.

© 2022 Johns Hopkins University Press

KYPHOPLASTY/VERTEBROPLASTY

Health Quality Ontario. 2016. Vertebral augmentation involving vertebroplasty or kyphoplasty for cancer-related vertebral compression fractures: A systematic review. Ont Health Technol Assess Ser 16:1–202.

Jensen ME, Kallmes DK. 2002. Percutaneous vertebroplasty in the treatment of malignant spinal disease. Cancer J 8:194–206.

RADIOFREQUENCY ABLATION

Gennaro N, Sconfienza LM, Ambrogi F, et al. 2019. Thermal ablation to relieve pain from metastatic bone disease: A systematic review. Skeletal Radiol 48:1161–69.

Goetz MP, Callstrom MR, Charboneau JW, et al. 2004. Percutaneous image-guided radiofrequency ablation of painful metastases involving bone: A multicenter study. J Clin Oncol 122:300–306.

Rosenthal D, Callstrom MR. 2012. Critical review and state of the art in interventional oncology: Benign and metastatic disease involving bone. Radiology 262:765–80.

EXTERNAL BEAM RADIATION AND RADIOPHARMACEUTICALS

Cheetham PJ, Petrylak DP. 2012. Alpha particles as radiopharmaceuticals in the treatment of bone metastases: Mechanism of action of radium-223 chloride (Alpharadin) and radiation protection. Oncology 26:330–37.

Paes FM, Ernani V, Hosein P, et al. 2011. Radiopharmaceuticals: When and how to use them to treat metastatic bone pain. J Support Oncol 9:197–205.

Pal S, Dutta S, Adhikary SS, et al. 2014. Hemi body irradiation: An economical way of palliation of pain in bone metastasis in advanced cancer. South Asian J Cancer 3:28–32.

Parker C, Nilsson S, Heinrich D, et al. 2013. Alpha emitter radium-223 and survival in metastatic prostate cancer. N Engl J Med 369:213–23.

Shiloh R, Krishnan M. 2018. Radiation for treatment of painful bone metastases. Hematol Oncol Clin North Am 32:459–68.

SKELETAL MUSCLE RELAXANTS

Hardek B, Pruskowski J. 2017. Skeletal muscle relaxants #340. J Palliat Med 20:1293–94.

Anesthetic and Interventional Methods

GENERAL REFERENCES

Aman MM, Mahmoud A, Deer T, et al. 2021. The American Society of Pain and Neuroscience (ASPN) best practices and guidelines for the interventional management of cancer-associated pain. J Pain Res 14:2139–64.

© 2022 Johns Hopkins University Press

Careskey H, Narang S. 2018. Interventional anesthetic methods for pain in hematology/oncology patients. Hematol Oncol Clin North Am 32:433–45.

Narang S, Weisheipl A, Ross EL. eds. 2016. Surgical Pain Management: A Complete Guide to Implantable and Interventional Pain Therapies. Oxford: Oxford University Press.

Viswanathan A, Vedantam A, Hess KR, et al. 2019. Minimally invasive cordotomy for refractory cancer pain: A randomized controlled trial. Oncologist 24:e590–e596.

TOPICAL AGENTS

Argoff CE. 2003. Targeted topical peripheral analgesics in the management of pain. Curr Pain Headache Rep 7:34–38.

Kumar M, Chawla R, Goyal M. 2015. Topical anesthesia. J Anaesthesiol Clin Pharmacol 31:450–56.

EMLA

Rice LJ, Cravero J. 1994. Relieving the pain and anxiety of needle injections—Experience with EMLA cream (lidocaine 2.5% and prilocaine 2.5%) dermal anesthetic. Today's Ther Trends 11:175–85.

Stow PJ, Glynn CJ, Minor B. 1989. EMLA cream in the treatment of post-herpetic neuralgia: Efficacy and pharmacokinetic profile. Pain 39:301–5.

LIDOCAINE

Galer BS, Jensen MP, Ma T, et al. 2002. The lidocaine patch 5% effectively treats all neuropathic pain qualities: Results of a randomized, double-blind, vehicle-controlled, 3-week efficacy study with use of the neuropathic pain scale. Clin J Pain 18:297–301.

Katz NP, Gammaitoni AR, Davis MW, et al. 2002. Lidocaine patch 5% reduces pain intensity and interference with quality of life in patients with postherpetic neuralgia: An effectiveness trial. Pain Med 3:1–10.

Rowbotham MC, Davies PS, Fields HL. 1995. Topical lidocaine gel relieves postherpetic neuralgia. Ann Neurol 37:246–53.

CAPSAICIN

Ellison N, Loprinzi CL, Kugler J, et al. 1997. Phase III placebo-controlled trial of capsaicin cream in the management of surgical neuropathic pain in cancer patients. J Clin Oncol 15:2974–80.

Haanpää M, Treede RD. 2012. Capsaicin for neuropathic pain: Linking traditional medicine and molecular biology. Eur Neurol 68:264–75.

© 2022 Johns Hopkins University Press

Watson CPN, Evans RJ, Watt VR. 1988. Postherpetic neuralgia and topical capsaicin. Pain 33:333–40.

Watson CPN, Evans RJ, Watt VR. 1989. The post-mastectomy pain syndrome and the effect of topical capsaicin. Pain 38:177–86.

Watson CPN, Tyler KL, Bickers DR, et al. 1993. A randomized vehicle-controlled trial of topical capsaicin in the treatment of post-herpetic neuralgia. Clin Ther 15:510–26.

ORAL ANESTHETICS

Sloan P, Basta M, Stoey P, et al. 1999. Mexiletine as an adjuvant analgesic for the management of neuropathic cancer pain. Anesth Analg 89:760–61.

Neural Blockade and Neuroablation

Careskey H, Narang S. 2018. Interventional anesthetic methods for pain in hematology/oncology patients. Hematol Oncol Clin North Am 32:433–45.

Correia JS, Silva M, Castro C, et al. 2019. The efficacy of the ganglion impar block in perineal and pelvic cancer pain. Support Care Cancer 27:4327–30.

Ferrante FM, Bedder M, Caplan RA, et al. 1996. Practice Guidelines for Cancer Pain Management: a report by the American Society of Anesthesiologists' Task Force on Pain Management, Cancer Pain Section. Anesthesiology 84:1243–57.

Mueller K, Karimuddin AA, Metcalf C, et al. 2020. Management of malignant rectal pain and tenesmus: A systematic review. J Palliat Med 23:964–71.

Narang S, Weisheipl A, Ross EL, eds. 2016. Surgical Pain Management: A Complete Guide to Implantable and Interventional Pain Therapies. Oxford: Oxford University Press.

Slatkin NE, Rhiner M. 2003. Phenol saddle blocks for intractable pain at the end of life: Report of four cases and literature review. Am J Hospice Palliat Care 20:62–66.

Turnbull JH, Gebauer SL, Miller BL, et al. 2011. Cutaneous nerve transection for the management of intractable upper extremity pain caused by invasive squamous cell carcinoma. J Pain Symptom Manage 42:126–33.

Wyse JM, Carone M, Paquin SC, et al. 2011. Randomized, double-blind, controlled trial of early endoscopic ultrasound-guided celiac plexus neurolysis to prevent pain progression in patients with newly diagnosed, painful, inoperable pancreatic cancer. J Clin Oncol 29:3541–46.

CINGULOTOMY

Agarwal N, Choi PA, Shin SS, et al. 2016. Anterior cingulotomy for intractable pain. Interdisc Neurosurg 6:80–83.

© 2022 Johns Hopkins University Press

Sharim J, Pouratian N. 2016. Anterior cingulotomy for the treatment of chronic intractable pain: A systematic review. Pain Physician 19:537–50.

Relieving Pain in Older Persons

American Geriatrics Society Panel on Pharmacological Management of Persistent Pain in Older Persons. 2009. Pharmacological management of persistent pain in older persons. J Am Geriatr Soc 57:1331–46.

Bach TV, Pan J, Kirstein A, et al. 2016. Use of methadone as an adjuvant medication to low-dose opioids for neuropathic pain in the frail elderly: a case series. J Palliat Med 19:1351–55.

Bernabei R, Gambassi G, Lapane K, et al., for the SAGE Study Group. 1998. Management of pain in elderly patients with cancer. JAMA 279:1877–82.

Gloth FM III. 2011. Pharmacologic management of persistent pain in older persons: Focus on opioids and nonopioids. J Pain 12(suppl 1):S14–S20.

Jones MR, Ehrhardt KP, Ripoli JG, et al. 2016. Pain in the elderly. Curr Pain Headache Rep 20:23.

Warden V, Hurley AC, Volicer L. 2003. Development and psychometric evaluation of the Pain Assessment in Advanced Dementia (PAINAD) scale. J Am Med Dir Assoc 4:9–15.

Relieving Pain in Patients with Substance Use Disorder (see also Risk Mitigation)

Alford DP, Comptom P, Samet JH. 2006. Acute pain management for patients receiving maintenance methadone or buprenorphine therapy. Ann Intern Med 144:127–34.

Dale R, Edwards J, Ballantyne J. 2016. Opioid risk assessment in palliative medicine. J Commun Support Oncol 14:94–100.

Doverty M, Somogyi AA, White JM, et al. 2001. Methadone maintenance patients are cross-tolerant to the anti-nociceptive effects of morphine. Pain 93:155–63.

Dowell D, Haegerich TM, Chou R. 2016. CDC guideline for prescribing opioids for chronic pain—United States. JAMA 315:1624–45.

Goodlev ER, Discala S, Darnall BD, et al. 2019. Managing cancer pain, monitoring for cancer recurrence, and mitigating risk of opioid use disorder: A team-based, interdisciplinary approach to cancer survivorship. J Palliat Med 22:1308–17.

Paice JA. 2019. Risk assessment and monitoring of patients with cancer receiving opioid therapy. Oncologist 24:1–5.

© 2022 Johns Hopkins University Press

Peles E, Schreiber S, Gordon J, et al. 2005. Significantly higher methadone dose for methadone maintenance treatment (MMT) patients with chronic pain. Pain 113:340–46.

Scarborough BM, Smith CB. 2018. Optimal pain management for patients with cancer in the modern era. CA Cancer J Clin 68:182–96.

Managing Pain in Cancer Survivors

Bruera E, Del Fabbro E. 2018. Pain management in the era of the opioid crisis. 2018 ASCO Educational Book 38:807–12.

CDC. 2019. Pocket guide: Tapering opioids for chronic pain. Guideline for prescribing opioids for chronic pain. https://www.cdc.gov/drugoverdose.

Goodlev ER, Discala S, Darnall BD, et al. 2019. Managing cancer pain, monitoring for cancer recurrence, and mitigating risk of opioid use disorder: A team-based, interdisciplinary approach to cancer survivorship. J Palliat Med 22:1308–17.

Loren AW. 2018. Harder to treat than leukemia: Opioid use disorder in survivors of cancer. N Engl J Med 379:2485–87.

Rieder T. 2019. In Pain: A Bioethicist's Personal Struggle with Opioids. New York: Harper Collins.

Salz T, Lavery JA, Lipitz-Snyderman AN, et al. 2019. Trends in opioid use among older survivors of colorectal, lung and breast cancers. J Clin Oncol 37:1001–11.

Wesson DR, Ling W. 2003. The Clinical Opiate Withdrawal Scale (COWS). J Psychoactive Drugs 35:253–59.

Managing Pain in Multiple Myeloma and Hematopoietic Stem Cell Transplant Recipients

Ma JD, El-awahri AR, LeBlanc TW, et al. 2018. Pain syndromes and management in adult hematopoietic stem cell transplantation. Hematol Oncol Clinic North Am 32:551–67.

Samala RV, Valent J, Oche N, et al. 2019. Palliative care in patients with multiple myeloma. J Pain Symptom Manage 58:1113–18.

Common Clinical Situations: Rapidly Relieving Excruciating Pain

Hofherr M, Abrahm JL, Rickerson E. 2020. Dexmedetomidine: A novel strategy for patients with intractable pain, opioid-induced hyperalgesia, or delirium at the end of life. J Palliat Med 23:1515–17.

© 2022 Johns Hopkins University Press

Moryl N, Coyle N, Foley KM. 2008. Managing an acute pain crisis in a patient with advanced cancer: “This is as much of a crisis as a code.” JAMA 299:1457–67.

Mupamombe CT, Luczkiewicz D, Kerr C. 2019. Dexmedetomidine as an option for opioid refractory pain in the hospice setting. J Palliat Med 22:1478–81.

Roberts SB, Wozencraft CP, Coyne PJ, et al. 2011. Dexmedetomidine as an adjuvant analgesic for intractable cancer pain. J Palliat Med 14:371–73.

Chapter 8. Nonpharmacologic Strategies in Palliative Care

General Integrative Oncology / Complementary and Alternative Medicine

Bardia A, Barton DL, Prokop LJ, et al. 2006. Efficacy of complementary and alternative medicine therapies for cancer pain: A systematic review. J Clin Oncol 24:5457–64.

Cassileth BR. 2011. The Complete Guide to Complementary Therapies in Cancer Care: Essential Information for Patients, Survivors, and Health Professionals. Singapore: World Scientific.

Davis EL, Oh B, Butow PN, et al. 2012. Cancer patient disclosure and patient-doctor communication of complementary and alternative medicine use: A systematic review. Oncologist 17:1475–81.

Frenkel M, Cohen L. 2014. Effective communication about the use of complementary and integrative medicine in cancer care. J Altern Complement Med 20:12–18.

Henson LA, Maddocks M, Evans C, et al. 2020. Palliative care and the management of common distressing symptoms in advanced cancer: Pain, breathlessness, nausea and vomiting, and fatigue. J Clin Oncol 38:905–14.

Latte-Naor S, Mao JJ. 2019. Putting integrative oncology into practice: Concepts and approaches. J Onc Pract 15:7–14.

Levy C, Casler N, FitzGerald D. 2018. Battlefield acupuncture: An emerging method for easing pain. Am J Phys Med Rehabil 97:e18–e19.

Lyman GH, Greenlee H, Bohlke K, et al. 2018. Integrative therapies during and after breast cancer treatment: ASCO endorsement of the SIO Clinical Practice Guidelines. J Clin Oncol 36:2647–55.

Maindet C, Brunod A, Minello C, et al. 2019. Strategies of complementary and integrative therapies in cancer-related pain—attaining exhaustive cancer pain management. Support Care Cancer 27:3119–32.

© 2022 Johns Hopkins University Press

NCCN. 2020a. NCCN Guidelines for adult cancer pain, version 1. NCCN Clinical Practice Guidelines in Oncology. https://www.nccn.org/guidelines/guidelines-detail?category=3&id=1413.

NCCN. 2020b. NCCN Guidelines for cancer-related fatigue, version 2. NCCN Clinical Practice Guidelines in Oncology. https://www.nccn.org/guidelines/guidelines-detail?category=3&id=1424.

National Center for Complementary and Integrative Health. 2021. Complementary, alternative, or integrative health: What's in a name? Last updated April 2021. https://www.nccih.nih.gov/health/integrative-health.

National Center for Complementary and Integrative Health. 2017. Mind and body practices. Last updated September 2017. https://www.nccih.nih.gov/health/mindbody.

Paice JA, Portenoy R, Lacchetti C, et al. 2016. Management of chronic pain in survivors of adult cancers: ASCO Clinical Practice Guideline. J Clin Oncol 34:3325–45.

Syrjala KL, Jensen MP, Mendoza E, et al. 2014. Psychological and behavioral approaches to cancer pain management. J Clin Oncol 32:1703–11.

Tenner L, Hlubocky FJ, Blanke CD, et al. 2019. Let's talk about those herbs you are taking: Ethical considerations for communication with patients with cancer about complementary and alternative medicine. J Onc Practice 15:44–50.

Alternative Medical Systems

Acupuncture

Alimi D, Rubino C, Pichard-Leandri E, et al. 2003. Analgesic effect of auricular acupuncture for cancer pain: A randomized, blinded, controlled trial. J Clin Oncol 21:4120–26.

American Academy of Medical Acupuncture. Home page. Last updated 2020. https://www.medicalacupuncture.org.

Bao T, Patil S, Chen C, et al. 2020. Effect of acupuncture vs sham procedure on chemotherapy-induced peripheral neuropathy symptoms: A randomized clinical trial. JAMA Netw Open 3:e200681.

Choi TY, Lee MS, Kim TH, et al. 2012. Acupuncture for the treatment of cancer pain: A systematic review of randomised clinical trials. Support Care Cancer 20:1147–58.

Deng G, Cassileth BR. 2015. Complementary therapies in pain management. In Oxford Textbook of Palliative Medicine, 5th ed., Cherny NI, Fallon M, Kaasa S, Portenoy RK, Currow DC (eds.). Oxford: Oxford University Press.

© 2022 Johns Hopkins University Press

Filshie J, White A, Cummings M, eds. 2016. Medical acupuncture: A Western scientific approach. 2nd ed. Edinburgh: Elsevier.

Garcia MK, McQuade J, Haddad R, et al. 2013. Systematic review of acupuncture in cancer care: A synthesis of the evidence. J Clin Oncol 31:952–60.

Han X, Wang L, Shi H, et al. 2017. Acupuncture combined with methylcobalamin for the treatment of chemotherapy-induced peripheral neuropathy in patients with multiple myeloma. BMC Cancer 17:40.

Helms JM. 1999. An overview of medical acupuncture. In Essentials of Complementary and Alternative Medicine, Jonas WB, Levin JS (eds.). Baltimore, MD: Lippincott Williams and Wilkins.

Helms JM. 2020. "An Overview of Medical Acupuncture." American Academy of Medical Acupuncture. Accessed May 24, 2020. https://www.medicalacupuncture.org/an-overview-of-medical-acupuncture/.

Johnson MI, Filshie J, Thompson JW. 2012. Transcutaneous electrical nerve stimulation and acupuncture. In Interventional Control in Cancer Pain Management, Hester J, Sykes N, Peat S (eds.). Oxford: Oxford University Press.

Levy CE, Casler N, FitzGerald DB. 2018. Battlefield acupuncture: An emerging method for easing pain. Am J Phys Med Rehabil 97:e18–19.

Lu W, Giobbie-Hurder A, Freedman RA, et al. 2020. Acupuncture for chemotherapy-induced peripheral neuropathy in breast cancer survivors: A randomized controlled pilot trial. Oncologist 25:310–18.

Lu W, Rosenthal DS. 2010. Recent advances in oncology acupuncture and safety considerations in practice. Curr Treat Options Oncol 11:141–46.

Lu W, Rosenthal DS. 2018. Oncology acupuncture for chronic pain in cancer survivors: A reflection on the ASCO Chronic Pain Guideline. Hematol Oncol Clin North Am 32:519–33.

Molassiotis A, Bardy J, Finnegan-John J, et al. 2012. Acupuncture for cancer-related fatigue in patients with breast cancer: A pragmatic randomized controlled trial. J Clin Oncol 30:4470–76.

National Institutes of Health. 1998. National Institutes of Health Consensus Conference: acupuncture. JAMA 280:1518–24.

O'Sullivan E, Higginson I. 2010. Clinical effectiveness and safety of acupuncture in the treatment of irradiation-induced xerostomia in patients with head and neck cancer: A systematic review. Acupunct Med 28:191–99.

© 2022 Johns Hopkins University Press

Paice JA, Lacchetti C, Bruera E. 2016. Management of chronic pain in survivors of adult cancers: ASCO Clinical Practice Guideline summary. J Oncol Pract 12:757–62.

Paley CA, Johnson MI, Tashani OA, et al. 2015. Acupuncture for cancer pain in adults. Cochrane Database Syst Rev 2015:CD007753.

Pfister DG, Cassileth BR, Deng GE, et al. 2010. Acupuncture for pain and dysfunction after neck dissection: Results of a randomized controlled trial. J Clin Oncol 28:2565–70.

Smith ME, Bauer-Wu S. 2012. Traditional Chinese medicine for cancer-related symptoms. Sem Onc Nurs 28:64–74.

von Trott P, Oei SL, Ramsenthaler C. 2020. Acupuncture for breathlessness in advanced diseases: A systematic review and meta-analysis. J Pain Symptom Manage 59:327–38.

Wardley AM, Ryder D, Misra V, et al. 2020. ACUFOCIN: Randomized trial of ACUpuncture plus standard care versus standard care alone for chemotherapy induced peripheral neuropathy (CIPN). Proc ASCO 2020 38(15suppl):12003.

Zhang CS, Yang AW, Zhang AL, et al. 2014. Sham control methods used in ear-acupuncture / ear-acupressure randomized controlled trials: A systematic review. J Altern Complement Med 20:147–61.

Zia FZ, Olaku O, Bao T, et al. 2017. The National Cancer Institute's conference on acupuncture for symptom management in oncology: State of the science, evidence, and research gaps. J Natl Cancer Inst Monogr 2017:68–73.

Yoga

Danhauer SC, Addington EL, Sohl SJ, et al. 2017. Review of yoga therapy during cancer treatment. Support Care Cancer 25:1357–72.

International Association of Yoga Therapists. 2020. Find a certified (C-IAYT) yoga therapist. Accessed May 19, 2020. https://www.iayt.org.

Khalsa SK. 1998. Fly Like a Butterfly: Yoga for Children. Portland, OR: Rudra Press.

Lewis JK. 2020. Yoga for cancer-related symptoms. J Palliat Med 23:719–20.

Ott MJ. 2002. Yoga as a clinical intervention. Adv Nurse Pract 10:81–83, 90.

Raub JA. 2002. Psychophysiologic effects of hatha yoga on musculoskeletal and cardio-pulmonary function: A literature review. J Altern Complement Medicine 8:797–812.

Robinson G, Walter T, Godsey J. 2019. Integrating yoga therapy into oncology care. Association of Community Cancer Centers, July-August, 26–35. https://www.accc-

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cancer.org/docs/documents/oncology-issues/articles/ja19/ja19-integrating-yoga-therapy-into-oncology-care.pdf.

Manipulative and Body-Based Methods

Cheville AL, Smith SR, Basford JR. 2018. Rehabilitation medicine approaches to pain management. Hematol Oncol Clin North Am 32:469–82.

Childs DS, Le-Rademacher J, McMurray R, et al. 2021. Randomized trial of Scrambler therapy for chemotherapy-induced peripheral neuropathy: A crossover analysis. J Pain Symptom Manage 61:1247–53.

Hurlow A, Bennett MI, Robb KA, et al. 2012. Transcutaneous electric nerve stimulation (TENS) for cancer pain in adults. Cochrane Database Syst Rev 14:CD006276.

Lee S-H, Kim J-Y, Yeo S, et al. 2015. Meta-analysis of massage therapy on cancer pain. Integr Cancer Ther 4:297–304.

Michel TH. 2003. Physical therapists: Palliative care competencies. In Dying, Death, and Bereavement: A Challenge for Living, 2nd ed., Corless IB, Germino BB, Pittman MA (eds.). New York: Springer.

NCCN. 2020a. NCCN Guidelines for adult cancer pain, version 1. NCCN Clinical Practice Guidelines in Oncology. https://www.nccn.org/guidelines/guidelines-detail?category=3&id=1413.

NCCN. 2020b. NCCN Guidelines for cancer-related fatigue, version 2. NCCN Clinical Practice Guidelines in Oncology. https://www.nccn.org/guidelines/guidelines-detail?category=3&id=1424.

Teoh D, Smith TJ, Song M, et al. 2018. Care after chemotherapy: Peripheral neuropathy, cannabis for symptom control, and mindfulness. Am Soc Clin Oncol Educ Book 38:469–79.

Wilkinson S, Barnes K, Storey L. 2008. Massage for symptom relief in patients with cancer: Systematic review. J Adv Nurs 63:430–39.

Wilkinson SM, Love SB, Westcombe AM, et al. 2007. Effectiveness of aromatherapy massage in the management of anxiety and depression in patients with cancer: A multicenter randomized controlled trial. J Clin Oncol 10:532–39.

Lymphedema

McLaughlin SA, Stout NL, Schaverien MV. 2020. Avoiding the swell: Advances in lymphedema prevention, detection, and management. 2020 ASCO Educ Book e17–e26.

© 2022 Johns Hopkins University Press

Qi Gong and Tai Chi

Zeng Y, Xie X, Cheng ASK. 2019. Qigong or Tai Chi in cancer care: An updated systematic review and meta-analysis. Curr Oncol Reports 21:48.

Speech and Language Therapy

Chahda L, Mathisen BA, Carey LB. 2017. The role of speech-language pathologists in adult palliative care. Int J Speech Lang Pathol 19:58-68.

Hansen K, Chenoweth M, Thompson H, et al. 2018). Role of the speech-language pathologist (SLP) in the head and neck cancer team. In Multidisciplinary Care of the Head and Neck Cancer Patient, vol. 174 of Cancer Treatment and Research, Maghami E., Ho A. (eds.). Cham: Springer.

Jackson P, Robbins M, Frankel S. 1996. Communication impediments in a group of hospice patients. Palliat Med 9:1–26.

Luckett T, Reid KLP. 2015. Speech and language therapy in palliative care. In Oxford Textbook of Palliative Medicine, 5th ed., Cherny NI, Fallon M, Kaasa S, Portenoy RK, Currow DC. (eds.). Oxford: Oxford University Press.

Salt N, Davies S, Wilkinson S. 1999. The contribution of speech and language therapy to palliative care. Eur J Palliat Care 6:126–29.

Mind-Body Interventions

Barkwell DP. 1991. Ascribed meaning: A critical factor in coping and pain attenuation in patients with cancer-related pain. J Palliat Care 7:5–14.

Beecher HK. 1946. Pain in men wounded in battle. Ann Surg 123:96–105.

Beecher HK. 1956. Relationship of significance of wound to the pain experienced. JAMA 161:1609–13.

Benson H, Beary JF, Carol MP. 1974. The relaxation response. Psychiatry 37:37–46.

Butler LD, Koopman C, Neri E, et al. 2009. Effects of supportive-expressive group therapy on pain in women with metastatic breast cancer. Health Psychol 28:579–87.

Egbert LD, Battit GE, Welch CE, et al. 1964. Reduction of postoperative pain by encouragement and instruction of patients. N Engl J Med 270:825–27.

Garland EL, Brintz CE, Hanley AW, et al. 2020. Mind-body therapies for opioid-treated pain: A systematic review and meta-analysis. JAMA Intern Med 180:91–105.

© 2022 Johns Hopkins University Press

Goodlev ER, Discala S, Darnall BD, et al. 2019. Managing cancer pain, monitoring for cancer recurrence, and mitigating risk of opioid-use disorders: A team-based, interdisciplinary approach to cancer survivorship. J Palliat Med 22:1308–17.

Gorin SS, Krebs P, Badr H, et al. 2012. Meta-analysis of psychosocial interventions to reduce pain in patients with cancer. J Clin Oncol 30:539–47.

Heinricher MM, Fields HL. 2013. Development of pain pathways and mechanisms. In Wall and Melzack's Textbook of Pain, 6th ed., SB McMahon, Koltzenberg M et al. (eds.). Philadelphia, PA: Saunders, Elsevier.

Indovina P, Barone D, Gallo L, et al. 2018. Virtual reality as a distraction intervention to relieve pain and distress during medical procedures: A comprehensive literature review. Clin J Pain 34:858–77.

Johnson T, Bauler L, Vos D, Hifko A, et al. 2020. Virtual reality use for symptom management in palliative care: A pilot study to assess user perceptions. J Palliat Med 23:1233–38.

Loscalzo M. 1996. Psychological approaches to the management of pain in patients with advanced cancer. Hematol Oncol Clin North Am 10:139–55.

Malloy KM, Milling LS. 2010. The effectiveness of virtual reality distraction for pain reduction: A systematic review. Clin Psych Rev 30:1011–18.

Niki K, Okamoto Y, Maeda I, et al. 2019. A novel palliative care approach using virtual reality for improving various symptoms of terminal cancer patients: A preliminary prospective, multicenter study. J Palliat Med 22:702–7.

Posadzki P, Ernst E. 2011. Guided imagery for musculoskeletal pain: A systematic review of randomized clinical trials. Clin J Pain 27:648–53.

Posadzki P, Lewandowski W, Terry R, et al. 2012. Guided imagery for non-musculoskeletal pain: A systematic review of randomized clinical trials. J Pain Symptom Manage 44:95–104.

Rodin G, Lo C, Rydall A, et al. 2018. Managing cancer and living meaningfully (CALM): A randomized controlled trial of a psychological intervention for patients with advanced cancer. J Clin Oncol 36:2422–32.

Scapin S, Echevarria-Guanilo ME, Fuculo PRB Jr, et al. 2018. Virtual reality in the treatment of burn patients: A systematic review. Burns 44:1403–16.

Schneider SM, Hood LE. 2007. Virtual reality: A distraction intervention for chemotherapy. Oncol Nurs Forum 34:39–46.

© 2022 Johns Hopkins University Press

Syrjala KL, Jensen MP, Mendoza E, et al. 2014. Psychological and behavioral approaches to cancer pain management. J Clin Oncol 32:1703–11.

Talbot JD, Marrett S, Evans AC, et al. 1991. Multiple representations of pain in human cerebral cortex. Science 251:1355–58.

Turk DC. 2003. Cognitive-behavioral approach to the treatment of chronic pain patients. Reg Anesth Pain Med 28:573–79.

Ulrich RS. 1984. View through a window may influence recovery from surgery. Science 224:420–21.

Wolsko PM, Eisenberg DM, Davis RB, et al. 2004. Use of mind-body medical therapies. J Gen Intern Med 19:43–50.

Zeng Y, Zhang J-E, Cheng ASK, et al. 2019. Meta-analysis of the efficacy of virtual-reality-based interventions in cancer-related symptom management. Integr Cancer Ther 18:1–8.

Mindfulness Meditation

Bauer-Wu S, Sullivan AM, Rosenbaum E, et al. 2008. Facing the challenges of hematopoietic stem cell transplantation with mindfulness meditation: A pilot study. Integr Cancer Ther 7:62–69.

Carlson LE. 2010. Meditation and yoga. In Psycho-Oncology, 2nd ed., Holland JC, Breitbart WS, Jacobsen PB, et al. (eds.). New York: Oxford University Press.

Carlson LE, Ursuliak Z, Goodey E, et al. 2001. The effect of a mindfulness meditation-based stress reduction program on mood and symptoms of stress in cancer outpatients: 6-month follow-up. Support Care Cancer 9:112–23.

Center for Mindfulness. 2021. UMass Memorial Health. Last updated 2021. https://www.ummhealth.org/umass-memorial-medical-center/services-treatments/center-for-mindfulness.

Compen F, Bisseling E, Schellekens M, et al. 2018. Face-to-face and internet-based mindfulness-based cognitive therapy compared with treatment as usual in reducing psychological distress in patients with cancer: A multicenter randomized controlled trial. J Clin Oncol 36:2413–21.

Haller H, Winkler MM, Klose P, et al. 2017. Mindfulness-based stress reduction for women with breast cancer: An updated systematic review and meta-analysis. Acta Oncol 56:1665–76.

Hoffman CJ, Ersser SJ, Hopkinson JB, et al. 2012. Effectiveness of mindfulness-based stress reduction in mood-, breast-, and endocrine-related quality of life, and well-being in stage 0-III breast cancer: A randomized, controlled trial. J Clin Oncol 30:1335–42.

© 2022 Johns Hopkins University Press

Kabat-Zinn J. 1990. Full Catastrophe Living: Using the Wisdom of Your Body and Mind to Face Stress, Pain, and Illness. New York: Dell.

Ott MJ, Norris RL, Bauer-Wu SM. 2006. Mindfulness meditation for oncology patients: A discussion and critical review. Integr Cancer Ther 5:98–108.

Shapiro SL, Schwartz GE, Bonner G. 1998. Effects of mindfulness-based stress reduction on medical and pre-medical students. J Behav Med 21:581–99.

Speca M, Carlson LE, Goodey E, et al. 2000. A randomized, wait-list controlled clinical trial: The effect of a mindfulness meditation-based stress reduction program on mood and symptoms of stress in cancer outpatients. Psychosom Med 62:613–22.

Stahl B, Goldstein E. 2010. A Mindfulness-Based Stress Reduction Workbook. Oakland, CA: New Harbinger.

Teoh D, Smith TJ, Song M, et al. 2018. Care after chemotherapy: Peripheral neuropathy, cannabis for symptom control, and mindfulness. Am Soc Clin Oncol Educ Book 38:469–79.

Wren AW, Somers TJ, Wright MA, et al. 2012. Self-compassion in patients with persistent musculoskeletal pain: Relationship of self-compassion to adjustment to persistent pain. J Pain Symptom Manage 43:759–70.

Hypnosis

Barber J, ed. 1996. Hypnosis and Suggestion in the Treatment of Pain: A Clinical Guide. New York: Norton.

Esdaile J. (1850) 2012. Mesmerism in India and Its Practical Application in Surgery and Medicine. Hartford, England: Silus Andrus and Son. Reprint, London: Classic Reprint Series, Forgotten Books.

Montgomery GH, Schnur JB, Kravits K. 2013. Hypnosis for cancer care: over 200 years young. CA Cancer J Clin 63:31–44.

Spiegel D, Moore R. 1997. Imagery and hypnosis in the treatment of cancer patients. Oncology 11:1179–95.

Waxman D, ed. 2002. Hartland's Medical and Dental Hypnosis. 4th ed. London: Balliere Tindall.

Neurofeedback

Hetkamp M, Bender J, Rheindorf N, et al. 2019. A systematic review of the effect of neurofeedback in cancer patients. Integr Cancer Ther 18:1–13.

© 2022 Johns Hopkins University Press

Music Therapy

Bradt J, Dileo C, Magill L, et al. 2016. Music interventions for improving psychological and physical outcomes in cancer patients. Cochrane Database Syst Rev 10:CD006911.

Freeman L, Caserta M, Lund D, et al. 2006. Music thanatology: Prescriptive harp music as palliative care for the dying patient. Am J Hosp Palliat Care. 23:100-104.

Gramaglia C, Gambaro E, Vecchi C, et al. 2019. Outcomes of music therapy interventions in cancer patients—a review of the literature. Crit Rev Oncol/Hematol 138:241–54.

Hanser S. 2006. Music therapy in adult oncology: Research issues. J Soc Integr Oncol 4:62–66.

Hanser S, Mandel SE. 2010. Manage Your Stress and Pain through Music. Boston: Berklee Press.

Horrigan B. 2001. Interview with Therese Schroeder-Sheker: Music thanatology and spiritual care for the dying. Altern Ther 7:69–77.

Magill L. 2001. The use of music therapy to address the suffering in advanced cancer pain. J Palliat Care 17:161–66.

Magill L. 2010. Music therapy. In Psycho-Oncology, 2nd ed., Holland JC, Breitbart WS, Jacobsen PB, et al. (eds.). New York: Oxford University Press.

O'Callaghan C. 2015. Music therapy in palliative care. In Oxford Textbook of Palliative Medicine, 5th ed., Cherny NI, Fallon M, Kaasa S, Portenoy RK, Currow DC (eds.). Oxford: Oxford University Press.

Olofsson A, Fossum B. 2009. Perspectives in music therapy in adult cancer care: A hermeneutic study. Onc Nurs Forum 36:E223–E231.

Richard-Lalonde M, Gélinas C, Boitor M, et al. 2020. The effect of music on pain in the adult intensive care unit: A systematic review of randomized controlled trials. J Pain Symptom Manage 59:1304–19.

Yangöz ST, Özer Z. 2019. The effect of music intervention on patients with cancer-related pain: A systematic review and meta-analysis of randomized controlled trials. J Adv Nurs 75:3362–73.

Art Therapy

Bozcuk H, Ozcan K, Erdogan C, et al. 2017. A comparative study of art therapy in cancer patients receiving chemotherapy and improvement in quality of life by watercolor painting. Complement Ther Med 30:67-72.

Luzzatto P, Magill L. 2010. Art therapy and music therapy. In Psycho-Oncology, 2nd ed., Holland JC, Breitbart WS, Jacobsen PB, et al. (eds.). Oxford: Oxford University Press.

© 2022 Johns Hopkins University Press

Luzzatto P, Sereno V, Capps R. 2003. A communication tool for cancer patients with pain: The art therapy technique of the Body Outline. Palliative and Supportive Care 1:135–42.

Reynolds MW, Nabors L, Quinlan A. 2000. The effectiveness of art therapy: Does it work? Art Therapy: J Am Art Ther Assoc 17:207–13.

Wood MJM. 2015. The contribution of art therapy to palliative medicine. In Oxford Textbook of Palliative Medicine, 5th ed., Cherny NI, Fallon M, Kaasa S, Portenoy RK, Currow DC. (eds.). Oxford: Oxford University Press.

Chapter 9. Psychological Considerations

General References

Breitbart W, Bruera E, Chochinov H, et al. 1995. Neuropsychiatric syndromes and psychological symptoms in patients with advanced cancer. J Pain Symptom Manage 10:131–41.

Carver CS. 1997. You want to measure coping but your protocol's too long: Consider the Brief COPE. Int J Behav Med 4:92–100.

Derogatis LR, Morrow GR, Feting J, et al. 1983. The prevalence of psychiatric disorders among cancer patients. JAMA 249:751–57.

Institute of Medicine (US) Committee on Psychosocial Services to Cancer Patients/Families in a Community Setting; Adler NE, Page AEK (eds.). 2008. Cancer Care for the Whole Patient: Meeting Psychosocial Health Needs. Washington, DC: National Academies Press. doi: 10.17226/11993. PMID: 20669419. Bookshelf ID: NBK4015.

Lang-Rollin I, Berberich G. 2018. Psycho-oncology. Dialogues Clin Neurosci 20:13–22.

Masel EK, Berghoff AS, Mladen A, et al. 2016. Psyche at the end of life: Psychiatric symptoms are prevalent in patients admitted to a palliative care unit. Palliat Support Care 14:250–58.

Miovic M, Block SD. 2007. Psychiatric disorders in advanced cancer. Cancer 110:1665–76.

NCCN. 2021. Distress management guidelines, version 2. NCCN Clinical Practice Guidelines in Oncology. https://www.nccn.org/guidelines/guidelines-detail?category=3&id=1431.

© 2022 Johns Hopkins University Press

Psychological Support and Counseling

Breitbart W, Poppito S, Rosenfeld B, et al. 2012. Pilot randomized controlled trial of individual meaning-centered psychotherapy for patients with advanced cancer. J Clin Oncol. 30:1304–9.

Breitbart W, Rosenfeld B, Pessin H, et al. 2015. Meaning-centered group psychotherapy: An effective intervention for improving psychological well-being in patients with advanced cancer. J Clin Oncol 33:749–54.

Cayley B. 2006. Comfort always. FPM 13:74.

Druss RG. 2003. To comfort always. American Journal of Psychiatry 160:25–26.

Faulkner A, Maguire P. 1994. Talking to Cancer Patients and Their Relatives. Oxford: Oxford Medical.

Kim GM, Kim SJ, Song SK, et al. 2017. Prevalence and prognostic implications of psychological distress in patients with gastric cancer. BMC Cancer 17:283.

Nipp RD, El-Jawahri A, Fishbein JN, et al. 2016. The relationship between coping strategies, quality of life, and mood in patients with incurable cancer. Cancer 122:2110–16.

Nipp RD, Greer JA, El-Jawahri A, et al. 2017. Coping and prognostic awareness in patients with advanced cancer. J Clin Oncol 35:2551–57.

Roberts N, Czajkowska Z, Radiotis G, et al. 2013. Distress and coping strategies among patients with skin cancer. J Clin Psychol Med Settings 20:209–14.

Rosenfeld B, Saracino R, Tobias K, et al. 2017. Adapting meaning-centered psychotherapy for the palliative care setting: Results of a pilot study. Palliat Med 31:140–46.

Ryan H, Schofield P, Cockburn J, et al. 2005. How to recognize and manage psychological distress in cancer patients. Eur J Cancer Care (Engl)14:7–15.

Saracino RM, Rosenfeld B, Breitbart W, et al. 2019. Psychotherapy at the end of life. Am J Bioeth 19:19–28.

Thomas LP, Meier EA, Irwin SA. 2014. Meaning-centered psychotherapy: A form of psychotherapy for patients with cancer. Curr Psychiatry Rep 16:488.

Walshe C, Roberts D, Appleton L, et al. 2017. Coping well with advanced cancer: A serial qualitative interview study with patients and family carers. PLoS One 12:e0169071

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Existential Distress

Amonoo HL, Harris JH, Murphy WS, et al. 2020. The physician's role in responding to existential suffering: What does it mean to comfort always? J Palliat Med 35:8–12.

Frankl VE. 1992. Man's Search for Meaning: An Introduction to Logotherapy. Boston: Beacon Press.

LeMay K, Wilson KG. 2008. Treatment of existential distress in life threatening illness: A review of manualized interventions. Clin Psychol Rev 28:472–93.

Levine C. 1984. When parents choose prayer over medicine, should courts step in? Hastings Cent Rep 14:3–4.

Anxiety

Ganzel BL. 2018. Trauma-informed hospice and palliative care. Gerontologist 58:409–19.

Juurlink D. 2016. Revisiting the drug interaction between tamoxifen and SSRI antidepressants. BMJ 354:i5309

Noyes R Jr., Hoehn-Saric R. 1998. The Anxiety Disorders. Cambridge: Cambridge University Press.

Richards S, Umbreit JN, Fanucchi MP, et al. 2003. Selective serotonin reuptake inhibitor-induced rhabdomyolysis associated with irinotecan. South Med J 96:1031.

Stark D, Kiely M, Smith A, et al. 2002. Anxiety disorders in cancer patients: Their nature, associations, and relation to quality of life. J Clin Oncol 20:3137–48.

Zigmond AS, Snaith RP. 1983. The hospital anxiety and depression scale. Acta Psychiatr Scand 67:361–70.

Post-traumatic Stress Reactions

Chan CMH, Ng CG, Taib NA, et al. 2018. Course and predictors of post-traumatic stress disorder in a cohort of psychologically distressed patients with cancer: A 4-year follow-up study. Cancer 124:406–16.

Depression

Beach SR, Celano CM, Noseworthy PA, et al. 2013. QTc prolongation, torsades de pointes, and psychotropic medications. Psychosomatics 54:1–13.

Block SD. 2000. Assessing and managing depression in the terminally ill patient. Ann Intern Med 132:209–18.

© 2022 Johns Hopkins University Press

Breitbart W, Rosenfeld B, Pessin H, et al. 2000. Depression, hopelessness, and desire for hastened death in terminally ill patients with cancer. JAMA 284:2907–11

Chochinov HM, Wilson KG, Enns M, et al. 1997. Are you depressed? Screening for depression in the terminally ill. Am J Psychiatry 154:674–76.

Goldman N, Frankenthaler M, Klepacz L. 2019. The efficacy of ketamine in the palliative care setting: A comprehensive review of the literature. J Palliat Med 22:1154–61.

Grassi L, Nanni MG, Rodin G, et al. 2018. The use of antidepressants in oncology: A review and practical tips for oncologists. Ann Oncol 29:101–11.

Griffiths RR, Johnson MW, Carducci MA, et al. 2016. Psilocybin produces substantial and sustained decreases in depression and anxiety in patients with life-threatening cancer: A randomized double-blind trial. J Psychopharmacol 30:1181–97.

Howard P, Twycross R, Shuster J, et al. 2012. Antidepressant drugs. J Pain Symptom Manage 44:763–83.

Juurlink D. 2016. Revisiting the drug interaction between tamoxifen and SSRI antidepressants. BMJ 354:i5309.

Kroenke K, Spitzer RL, Williams JB. 2001. The PHQ-9: Validity of a brief depression severity measure. J Gen Intern Med 16:606–13.

Massie MJ. 2004. Prevalence of depression in patients with cancer. J Natl Cancer Inst Monogr 2004:57–71.

Rozans M, Dreisbach A, Lertora JJL, et al. 2002. Palliative uses of methylphenidate in patients with cancer: A review. J Clin Oncol 20:335–39.

Turaga KK, Malafa MP, Jacobsen PB, et al. 2011. Suicide in patients with pancreatic cancer. Cancer 117:642–47.

World Health Organization (WHO) and the International Society for Prevention of Child Abuse and Neglect (ISPCAN). 2006. Preventing Child Maltreatment: A Guide to Taking Action and Generating Evidence. Geneva: WHO Press. https://apps.who.int/iris/bitstream/handle/10665/43499/9241594365_eng.pdf?sequence=1&isAllowed=y.

Wygant C, Hui D, Bruera E. 2011. Childhood sexual abuse in advanced cancer patients in the palliative care setting. J Pain Sympt Manage 42:290–95.

Zigmond AS, Snaith RP. 1983. The hospital anxiety and depression scale. Acta Psychiatr Scand 67:361–70.

© 2022 Johns Hopkins University Press

Personality Disorders

Groves JE. 1978. Taking care of the hateful patient. N Engl J Med 298:883–87.

Meyer F, Block S. 2011. Personality disorders in the oncology setting. J Supportive Oncol 9:44–51.

Delirium / Neuroleptic therapy

Agar MR, Lawlor PG, Quinn S, et al. 2017. Efficacy of oral risperidone, haloperidol, or placebo for symptoms of delirium among patients in palliative care: A randomized clinical trial. JAMA Intern Med 177:34–42.

Avital A, Gross-Isseroff R, Stryjer R., et al. 2009. Zolmitriptan compared to propranolol in the treatment of acute neuroleptic-induced akathisia: A comparative double-blind study. European Neuropsychopharmacology 19:476–82.

Beach SR, Celano CM, Noseworthy PA, et al. 2013. QTc prolongation, torsades de pointes, and psychotropic medications. Psychosomatics 54:1–13.

Boettger S, Friedlander M, Breitbart W, et al. 2011. Aripiprazole and haloperidol in the treatment of delirium. Aust N Z J Psychiatry 45:477–82.

Breitbart W, Marotta R, Platt MM, et al. 1996. A double-blind trial of haloperidol, chlorpromazine, and lorazepam in the treatment of delirium in hospitalized AIDS patients. Am J Psychiatry 153:231–37.

Caroff SN, Hurford I, Lybrand J, et al. 2011. Antipsychotic drugs: Implications of the CATIE schizophrenia trial. Neurol Clin 29:127–48.

de Stoutz ND, Bruera E, Suarez-Almazor M. 1995. Opioid rotation for toxicity reduction in terminal cancer patients. J Pain Symptom Manage 10:378–84.

de Stoutz ND, Tapper M, Fainsinger R. 1995. Reversible delirium in terminally ill patients. J Pain Symptom Manage 10:249–53.

Goodnick PJ, Jerry JM. 2002. Aripiprazole: Profile on efficacy and safety. Expert Opin Pharmacother 3:1773–81.

Hui D, Bush SH, Gallo LE, et al. 2010. Neuroleptic dose in the management of delirium in patients with advanced cancer. J Pain Symptom Manage 39:186–96.

Kang JH, Shin SH, Bruera E. 2013. Comprehensive approaches to managing delirium in patients with advanced cancer. Cancer Treat Rev 39:105–12.

© 2022 Johns Hopkins University Press

Kasper S, Lerman MN, McQuade RD, et al. 2003. Efficacy and safety of aripiprazole vs. haloperidol for long-term maintenance treatment following acute relapse of schizophrenia. Int J Neuropsychopharmacol 6:325–37.

Kestenbaum MG, Vilches AO, Messersmith S, et al. 2014. Alternative routes to oral opioid administration in palliative care: A review and clinical summary. Pain Med 15:1129–53.

Lawlor PG, Gagnon B, Mancini IL, et al. 2000. Occurrence, causes, and outcome of delirium in patients with advanced cancer: A prospective study. Arch Intern Med 160:786–94.

Poyurovsky M, Pashinian A, Weizman R, et al. 2006. Low-dose mirtazapine: A new option in the treatment of anti-psychotic-induced akathisia. A randomized, double-blind, placebo- and propranolol-controlled trial. Biol Psych 59:1071–77.

Sher Y, Miller Cramer AC, Ament A, et al. 2015. Valproic acid for treatment of hyperactive or mixed delirium: Rationale and literature review. Psychosomatics 56:615–25.

Warren DE. 1996. Practical use of rectal medications in palliative care. J Pain Symptom Manage 11:378–87.

Weissman DE. 1988. Glucocorticoid treatment for brain metastases and epidural spinal cord compression: A review. J Clin Oncol 6:543–51.

Serotonin Syndrome

Ables AZ, Nagubilli R. 2010. Prevention, diagnosis, and management of serotonin syndrome. Am Fam Physician 81:1139–42.

Boyer EW, Shannon M. 2005. The serotonin syndrome. N Engl J Med 352:1112–20.

Kotlinska-Lemieszek A, Klepstad P, Faksvåg D. 2019. Clinically significant drug-drug interactions involving medications used for symptom control in patients with advanced malignant disease: A systematic review. J Pain Symptom Manage 57:989–98.

Levin TT, Cortes-Ladino A, Weiss M, et al. 2008. Life-threatening serotonin toxicity due to a citalopram-fluconazole drug-drug interaction: Case reports and discussion. Gen Hosp Psychiatry 30:372–77.

Mahlberg R, Kunz D, Sasse J, et al. 2004. Serotonin syndrome with tramadol and citalopram. Am J Psychiatry 161:1129.

Mastroianni A, Ravaglia G. 2017. Serotonin syndrome due to co-administration of linezolid and methadone. Infez Med 25:263–66.

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Chapter 10. Managing Other Distressing Problems

General References

Bruera E, Higginson IJ, von Gunten C, et al. 2016. Textbook of Palliative Medicine and Supportive Care. 2nd ed. Boca Raton, FL: CRC Press.

Cherny NI, Fallon MT, Kaasa S, et al., eds. 2015. Oxford Textbook of Palliative Medicine: Principles and Practice of Supportive Care in Oncology. 5th ed. Oxford: Oxford University Press.

Henson LA, Maddocks M, Evans C, et al. 2020. Palliative care and the management of common distressing symptoms in advanced cancer: Pain, breathlessness, nausea and vomiting, and fatigue. J Clin Oncol 38:905–14.

Holland JC, Breitbart WS, Butow PN, et al., eds. 2015. Psycho-Oncology. 3rd ed. Oxford: Oxford University Press.

Quill T, Periyakoil V, Denney-Koelsch E, et al. 2019. Primer of Palliative Care. 7th ed. Glenview, IL: American Academy of Hospice and Palliative Medicine.

Waller A, Caroline NL. 2000. Handbook of Palliative Care in Cancer. 2nd ed. Boston: Butterworth-Heinemann.

Oral Care

Chemo- and Radiation Therapy–Induced Mucositis: Prevention and Treatment

Bauman B, Mick R, Martinez E, et al. 2019. Efficacy of oral cryotherapy during oxaliplatin infusion in preventing oral thermal hyperalgesia: A randomized trial. J Natl Compr Cancer Netw 17:358–64.

Bowen J, Al-Dasooqi N, Bossi P, et al., for the Mucositis Study Group of the Multinational Association of Supportive Care in Cancer / International Society of Oral Oncology (MASCC/ISOO). 2019. The pathogenesis of mucositis: Updated perspectives and emerging targets. Support Care Cancer 27:4023–33.

Correa MEP, Cheng KKF, Chiang K, et al. 2020. Systemic review of oral cryotherapy for the management of oral mucositis in cancer patients and clinical practice guidelines. Support Care Cancer 28:2449–56.

Elad S. Guest editor. 2019. Special section on the MASCC/ISOO clinical practice guidelines for the management of mucositis—2019 update. Support Care Cancer 27:3927–4033.

© 2022 Johns Hopkins University Press

Elad S. Guest editor. 2020. Special section on the MASCC/ISOO clinical practice guidelines for the management of mucositis—2019 update, part 2. Support Care Cancer 28:2443–98.

Elad S, Yarom N. 2019. The search for an effective therapy and pain relief for oral mucositis. JAMA 321:1459–61.

Elad S, Zadik Y, Hewson I, et al., for the Viral Infections Section, Oral Care Study Group, Multinational Association of Supportive Care in Cancer (MASCC) / International Society of Oral Oncology (ISOO). 2010. A systematic review of viral infections associated with oral involvement in cancer patients: A spotlight on Herpesviridea. Support Care Cancer 18:993–1006.

Hong CHL, Gueiros LA, Fulton JS, et al., for the Mucositis Study Group of the Multinational Association of Supportive Care in Cancer / International Society of Oral Oncology (MASCC/ISOO). 2019. Systematic review of basic oral care for the management of oral mucositis in cancer patients and clinical practice guidelines. Support Care Cancer 27:3949–67.

Logan RM, Al-Azri AR, Bossi P, et al., for the Mucositis Study Group of the Multinational Association of Supportive Care in Cancer / International Society of Oral Oncology (MASCC/ISOO). 2020. Systematic review of growth factors and cytokines for the management of oral mucositis in cancer patients and clinical practice guidelines. Support Care Cancer 28:2485–98.

Paglioni MdP, Alves CGB, Fontes EK, et al. 2019. Is photobiomodulation therapy effective in reducing pain caused by toxicities related to head and neck cancer treatment? A systematic review. Support Care Cancer 27:4043–54.

Saunders DP, Rouleau T, Cheng K, et al., for the Mucositis Study Group of the Multinational Association of Supportive Care in Cancer / International Society of Oral Oncology (MASCC/ISOO). 2020. Systematic review of antimicrobials, mucosal coating agents, anesthetics, and analgesics for the management of oral mucositis in cancer patients and clinical practice guidelines. Support Care Cancer 28:2473–84.

Sio TT, Le-Rademacher JG, Leenstra JL, et al. 2019. Effect of doxepin mouthwash or diphenhydramine-lidocaine-antacid mouthwash vs placebo on radiation-related mucositis pain: The Alliance A221304 randomized clinical trial. JAMA 32:1481–90.

Sonis S. 2020. Could the impact of photobiomodulation on tumor response to radiation be effected by tumor heterogeneity? Support Care Cancer 28:423–24.

Zadik Y, Arany PR, Rodrigues Fregnani E, et al., for the Mucositis Study Group of the Multinational Association of Supportive Care in Cancer / International Society of Oral Oncology (MASCC/ISOO). 2019. Systematic review of photobiomodulation for the

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management of oral mucositis in cancer patients and clinical practice guidelines. Support Care Cancer 27:3969–83.

Candida

Bays DJ, Thompson GR. 2019. Fungal infections of the stem cell transplant recipient and hematologic malignancy patients. Infect Dis Clin North Amer 33:545–66.

Xerostomia

Blom M, Lundeberg T. 2000. Long-term followup of patients treated with acupuncture for xerostomia and the influence of additional treatment. Oral Dis 6:15–24.

Ellershaw JE, Sutcliffe JM, Saunders CM. 1995. Dehydration and the dying patient. J Pain Symptom Manage 10:192–97.

Fleming M, Craigs CL, Bennett MI. 2020. Palliative care assessment of dry mouth: What matters most to patients with advanced disease. Support Care Cancer 28:1121–29.

Jensen SB, Pedersen AML, Vissink A, et al., Salivary Gland Hypofunction / Xerostomia Section, Oral Care Study Group, Multinational Association of Supportive Care in Cancer (MASCC) / International Society of Oral Oncology (ISOO). 2010a. A systematic review of salivary gland hypofunction and xerostomia induced by cancer therapies: Management strategies and economic impact. Support Care Cancer 18:1061–79.

Jensen SB, Pedersen AML, Vissink A, et al., Salivary Gland Hypofunction / Xerostomia Section, Oral Care Study Group, Multinational Association of Supportive Care in Cancer (MASCC) / International Society of Oral Oncology (ISOO). 2010b. A systematic review of salivary gland hypofunction and xerostomia induced by cancer therapies: Prevalence, severity, and impact on quality of life. Support Care Cancer 18:1039–60.

Mercadante V, Jensen SB, Smith DK et al. 2021. Salivary gland hypofunction and/or xerostomia induced by nonsurgical cancer therapies: ISOO/MASCC/ASCO guideline. J Clin Oncol 39:2825–43.

Gastrointestinal Problems

Ascites

Rosemurgy AS, Zervos EE, Clark WC, et al. 2004. TIPS versus peritoneovenous shunt in the treatment of medically intractable ascites: A prospective randomized trial. Ann Surg 239:883–91.

Yarmohammadi H, Getrajdman GI. 2017. Symptomatic fluid drainage: Peritoneovenous shunt placement. Semin Intervent Radiol 34:343–48.

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Constipation/Diarrhea

Bowen JM, Gibson RJ, Coller JK, et al., for the Mucositis Study Group of the Multinational Association of Supportive Care in Cancer / International Society of Oral Oncology (MASCC/ISOO). 2019. Systematic review of agents for the management of cancer treatment-related gastrointestinal mucositis and clinical practice guidelines. Support Care Cancer 27:4011–22.

Chauhan A, Patel RA, Luque L, et al. 2020. Amino acid mixture (enterade) as a new approach to reducing cancer therapy-induced gastrointestinal toxicity: A retrospective study. J Clin Oncol 38:e24107.

Davies A, Leach C, Caponero R, et al. 2020. MASCC recommendations on the management of constipation in patients with advanced cancer. Support Care Cancer 28:23–33.

Ginex PK, Hanson BJ, LeFebvre KB, et al. 2020. Management of opioid-induced and non-opioid-related constipation in patients with cancer: Systematic review and meta-analysis. Oncol Nurs Forum 47:E211–24.

Ippoliti C, Champlin R, Bugozia N, et al. 1997. Use of octreotide in the symptomatic management of diarrhea induced by graft-versus-host disease in patients with hematologic malignancies. J Clin Oncol 15:3330–54.

Kornblau S, Benson AB, Catalano R, et al. 2000. Management of cancer treatment-related diarrhea: Issues and therapeutic strategies. J Pain Symptom Manage 19:118–29.

Liu Z, Yan S, Wu J, et al. 2016. Acupuncture for severe functional constipation: A randomized trial. Ann Intern Med 165:761–69.

National Comprehensive Cancer Network (NCCN). 2020d. Palliative care, version 1. NCCN Clinical Practice Guidelines in Oncology. http://www.nccn.org.

van der Meij BS, de Graaf P, Wierdsma NJ, et al. 2013. Nutritional support in patients with GVHD of the digestive tract: State of the art. Bone Marrow Transplant 48:474–82.

Waller A, Caroline NL. 2000. Diarrhea and rectal discharge. In Handbook of Palliative Care in Cancer. 2nd ed. Boston: Butterworth-Heinemann.

Dysphagia / Nausea and Vomiting

Avital A, Gross-Isseroff R, Stryjer R, et al. 2009. Zolmitriptan compared to propranolol in the treatment of acute neuroleptic-induced akathisia: A comparative double-blind study. European Neuropsychopharmacology 19:476–82.

Dana-Farber Cancer Institute. 2020. Pink Book. Last updated 2020. https://pinkbook.dfci.org.

Davis MP, Hallerberg G. 2010. A systematic review of the treatment of nausea and/or vomiting in cancer unrelated to chemotherapy or radiation. J Pain Symptom Manage 39:756–67.

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Frowen J, Hughes R, Skeat J. 2020. The prevalence of patient-reported dysphagia and oral complications in cancer patients. Support Care Cancer 28:1141–50.

Fuccio L, Mandolesi D, Farioli A, et al. 2017. Brachytherapy for the palliation of dysphagia owing to esophageal cancer: A systematic review and meta-analysis of prospective studies. Radiother Oncol 122:332–39.

Hammond DC, ed. 1990. Handbook of Hypnotic Suggestion and Metaphors. New York: Norton.

Harder S, Groenvold M, Isaksen J, et al. 2018. Antiemetic use of olanzapine in patients with advanced cancer: Results from an open-label multicenter study. Support Care Cancer 27:2849–56.

Howard I. 2019. Cannabis hyperemesis syndrome in palliative care: A case study and narrative review. J Palliat Med 22:1227–31.

Johnson AM, Spaete JP, Jowell PS, et al. 2018. Top ten tips palliative care clinicians should know about interventional symptom management options when caring for patients with gastrointestinal malignancies. J Palliat Med 21:1339–42.

Katsanos K, Sabharwal T, Adam A. 2010. Stenting of the upper gastrointestinal tract: Current status. Cardiovasc Intervent Radiol 33:690–705.

Kawamoto T, Nihei K, Sasai K, et al. 2018. Palliative radiotherapy and chemoradiotherapy in stage IVA/B esophageal cancer patients with dysphagia. Int J Clin Oncol 23:1076–83.

LeGrand S, Walsh D. 2010. Scopolamine for cancer-related nausea. J Pain Symptom Manage 40:136–41.

Monte AA, Shelton SK, Mills E, et al. 2019. Acute illness associated with cannabis use, by route of exposure: An observational study. Ann Intern Med 170:531–37.

National Comprehensive Cancer Network (NCCN). 2020d. Palliative care, version 1. NCCN Clinical Practice Guidelines in Oncology. http://www.nccn.org.

National Institute for Health and Care Excellence (NIHCE). 2011. Colorectal Cancer: The Diagnosis and Full Management of Colorectal Cancer. Full guideline. https://www.nice.org.uk/guidance/cg131.

Poyurovsky M, Pashinian A, Weizman R, et al. 2006. Low-dose mirtazapine in the treatment of antipsychotic-induced akathisia: A randomized, double-blind, placebo- and propranolol-controlled trial. Biol Psych 59:1071–77.

Smith TJ, Ritter JK, Poklis JL, et al. 2012. ABH gel is not absorbed from the skin of normal volunteers. J Pain Symptom Manage 43:961–66.

© 2022 Johns Hopkins University Press

Walsh D, Davis M, Ripamonti C, et al. 2017. 2016 updated MASCC/ESMO consensus recommendations: Management of nausea and vomiting in advanced cancer. Support Care Cancer 25:333–40.

Wickham RJ. 2020. Revisiting the physiology of nausea and vomiting—challenging the paradigm. Support Care Cancer 28:13–21.

Treatment-Induced Nausea and Vomiting

Bhargava R, Chasen M, Elten M, et al. 2020. The effect of ginger (Zingiber officinale Roscoe) in patients with advanced cancer. Support Care Cancer 28:3279–86.

Cohen RE, Blanchard EB, Ruckdeschel JC, et al. 1986 Prevalence and correlates of posttreatment and anticipatory nausea and vomiting in cancer chemotherapy. J Psychosom Res 30:643–54.

Einhorn LH, Rapoport B, Navari RM, et al. 2017. 2016 updated MASCC/ESMO consensus recommendations: prevention of nausea and vomiting following multiple-day chemotherapy, high-dose chemotherapy, and breakthrough nausea and vomiting. Support Care Cancer 25:303–8.

Grunberg S, Chua D, Maru A, et al. 2011. Single-dose fosaprepitant for the prevention of chemotherapy-induced nausea and vomiting associated with cisplatin therapy: Randomized, double-blind study protocol. J Clin Oncol 29:1495–1501.

Hainsworth JD. Nausea and vomiting. In Abeloff's Clinical Oncology, 6th ed., Niederhuber JE, Armidtage JO, Dporoshow JH, Kastan MB, Tepper JE (eds.). Philadelphia: Elsevier, pp. 598–606.

Hesketh PJ, Kris MG, Basch E, et al. 2020. Antiemetics: American Society of Clinical Oncology guideline update. J Clin Oncol 38:2782–97.

Johnson MH, Moroney CE, Gay CF. 1997. Relieving nausea and vomiting in patients with cancer: A treatment algorithm. Oncol Nurs Forum 24:51–57.

Laszlo J, Clark RA, Hanson DC, et al. 1985. Lorazepam in cancer patients treated with cisplatin: A drug having antiemetic, amnesic, and anxiolytic effects. J Clin Oncol 3:864–69.

Leventhal H, Easterling DV, Nerenz DR, et al. 1988. The role of motion sickness in predicting anticipatory nausea. J Behav Med 11:117–30.

Mahendraratnam N, Farley FJ, Basch E, et al. 2019. Characterizing and assessing antiemetic underuse in patients initiating highly emetogenic chemotherapy. Support Care Cancer 227:4525–34.

Molassiotis A, Russell W, Hughes J, et al. 2013. The effectiveness and cost-effectiveness of acupressure for the control and management of chemotherapy-related acute and delayed

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nausea: Assessment of nausea in chemotherapy research (ANCHoR), a randomized trial. Health Technol Assess 17:1–114.

Morrow GR, Morrell BS. 1982. Behavioral treatment for the anticipatory nausea and vomiting induced by cancer chemotherapy. N Engl J Med 307:1476–80.

Mosa ASM, Hossain AM, Lavoie BJ, et al. 2020. Patient-related risk factors for chemotherapy-induced nausea and vomiting: A systematic review. Front Pharmacol 11:329.

National Academies of Science, Engineering and Medicine (NASEM). 2017. Health Effects of Cannabis and Cannabinoids: The Current State of Evidence and Recommendations for Research. Washington, DC: National Academies Press.

National Comprehensive Cancer Network (NCCN). 2020a. NCCN antiemesis guidelines. Version 2. NCCN Clinical Practice Guidelines. https://www.nccn.org/guidelines/guidelines-detail?category=3&id=1415.

Razvi Y, Chan S, McFarlane T, et al. 2019. ASCO, NCCN, MASCC/ESMO: A comparison of antiemetic guidelines for the treatment of chemotherapy-induced nausea and vomiting in adult patients. Support Care Cancer 27:87–95.

Roberts JT, Priestman TJ. 1993. A review of ondansetron in the management of radiotherapy-induced emesis. Oncology 50:173–79.

Roeland EJ, Ruddy KJ, LeBlanc TW, et al. 2020. What the HEC? Clinician adherence to evidence-based antiemetic prophylaxis for highly emetogenic chemotherapy. JNCCN 18:676–81.

Roila F, Donati D, Tamberi S, et al. 2002. Delayed emesis: Incidence, pattern, prognostic factors and optimal treatment. Support Care Cancer 10:88–95.

Roscoe JA, Heckler CE, Morrow GR, et al. 2012. Prevention of delayed nausea: A University of Rochester Cancer Center Community Clinical Oncology Program study of patients receiving chemotherapy. J Clin Oncol 30:3389–95.

Roscoe JA, Morrow GR, Aapro MS, et al. 2011. Anticipatory nausea and vomiting. Support Care Cancer 19:1533–38.

Scarantino CW, Ornitz RD, Hoffman LG, et al. 1992. Radiation-induced emesis: Effects of ondansetron. Semin Oncol 6(suppl 15):38–43.

Singh K, Paul SM, Kober KM, et al. 2020. Neuropsychological symptoms and intrusive thoughts are associated with worse trajectories of chemotherapy-induced nausea. J Pain Symptom Manage 59:668–78.

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Sullivan JR, Leyden MJ, Bell R. 1983. Decreased cisplatin induced nausea and vomiting with chronic alcohol ingestion. N Engl J Med 309:796.

Uthaipaisanwong A, Oranratanaphan S, Musigavong N. 2020. Effects of ginger adjunct to the standard prophylaxis on reducing carboplatin and paclitaxel-induced nausea vomiting: A randomized controlled study. Support Care Cancer 28:3831–38.

Malignant Bowel Obstruction

Allievi N, Ceresoli M, Fugazzola P, et al. 2017. Endoscopic stenting as bridge to surgery versus emergency resection for left-sided malignant colorectal obstruction: An updated meta-analysis. Int J Surg Oncol epub. PMID: 28761765.

Bozzetti F. 2019. The role of parenteral nutrition in patients with malignant bowel obstruction. Support Care Cancer 27:4393–99.

Englert ZP, White MA, Fitzgerald TL, et al. 2012. Surgical management of malignant bowel obstruction: At what price palliation? Am Surg 78:647–52.

Johnson AM, Spaete JP, Jowell PS, et al. 2018. Top ten tips palliative care clinicians should know about interventional symptom management options when caring for patients with gastrointestinal malignancies. J Palliat Med 21:1339–42.

Kasi PM. 2018. Telotristat ethyl for the treatment of carcinoid syndrome diarrhea not controlled by somatostatin analogues. Drugs of Today 54:423–32.

Laval G, Arvieux C, Stefani L, et al. 2006. Protocol for the treatment of malignant inoperable bowel obstruction: A prospective study of 80 cases at Grenoble University Hospital Center. J Pain Symptom Manage 31:502–12.

Lee YC, Jivraj N, Wang L, et al. 2019. Optimizing the care of malignant bowel obstruction in patients with advanced gynecological cancer. J Oncol Pract 15:e1066–e1075.

Mariani P, Blumberg J, Landau A, et al. 2012. Symptomatic treatment with lanreotide microparticles in inoperable bowel obstruction resulting from peritoneal carcinomatosis: A randomized, double-blind, placebo-controlled phase III study. J Clin Oncol 30:4337–43.

Mercadante S, Porzio G. 2012. Octreotide for malignant bowel obstruction: Twenty years after. Critical Reviews in Oncology/Hematology 83:388–92.

National Comprehensive Cancer Network (NCCN). 2020d. Palliative care, version 1. NCCN Clinical Practice Guidelines in Oncology. http://www.nccn.org.

Prommer EE. 2008. Established and potential therapeutic applications of octreotide in palliative care. Support Care Cancer 16:1117–23.

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Ripamonti CI, Easson AM, Gerdes H. 2008. Management of malignant bowel obstruction. Eur J Cancer 44:1105–15.

Soriano A, Davis MP. 2011. Malignant bowel obstruction: Individualized treatment near the end of life. Cleveland Clinic J Med 78:197–206.

Respiratory Problems

Dyspnea

Barnes H, McDonald J, Smallwood N, et al. 2016. Opioids for the palliation of refractory breathlessness in adults with advanced disease and terminal illness. Cochrane Database Syst Rev 3:CD011008.

Bausewein C, Booth S, Gysels M, et al. 2008. Non-pharmacological interventions for breathlessness in advanced stages of malignant and non-malignant diseases. Cochrane Database Syst Rev 2:CD005623

Benítez-Rosario MA, Rosa-González I, González-Dávila E, et al. 2019. Fentanyl treatment for end-of-life dyspnoea relief in advanced cancer patients. Support Care Cancer 27:157–64.

Cavalheri V, Burtin C, Formico VR, et al. 2019. Exercise training undertaken by people within 12 months of lung resection for non-small cell lung cancer. Cochrane Database Syst Rev 6:CD009955.

Clemens KE, Klaschik E. 2011. Dyspnea associated with anxiety—symptomatic therapy with opioids in combination with lorazepam and its effect on ventilation in cancer patients. Support Care Cancer 19:2027–33.

Clemens KE, Quednau I, Klaschik E. 2009. Use of oxygen and opioids in the palliation of dyspnea in hypoxic and non-hypoxic palliative care patients: A prospective study. Support Care Cancer 17:367–77.

Ferreira DH, Louw S, McCloud P, et al., for the Australian National Palliative Care Clinical Studies Collaborative. 2020. Controlled-release oxycodone vs placebo in the treatment of chronic breathlessness—a multisite randomized placebo-controlled trial. J Pain Symptom Manage 59:581–89.

Hui D, Hernandez F, Larsson L, et al. 2019. Prophylactic fentanyl sublingual spray for episodic exertional dyspnea in cancer patients: A pilot double-blind randomized controlled trial. J Pain Symptom Manage 58:605–13.

Hui D, Hernandez F, Thomas S, et al. 2020. High flow oxygen for dyspnea in hospitalized patients with cancer: A 4x4 crossover randomized clinical trial. J Clin Oncol 38:12077.

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Hui D, Bohlke K, Bao T, et al. 2021. Management of dyspnea in advanced cancer: ASCO Guideline. J Clin Oncol 39:1389–1411.

Kloke M, Cherny N, for the ESMO Guidelines Committee. 2015. Treatment of dyspnea in advanced cancer patients: ESMO Clinical Practice Guideline. Ann Oncol suppl 5:169–73.

National Comprehensive Cancer Network (NCCN). 2020d. Palliative care, version 1. NCCN Clinical Practice Guidelines in Oncology. http://www.nccn.org.

Peddle-McIntyre CJ, Singh F, Thomas R, et al. 2019. Exercise training for advanced lung cancer. Cochrane Database Syst Rev 2:CD012685.

Pilling JE, Dusmet ME, Ladas G, et al. 2010. Prognostic factors for survival after surgical palliation of malignant pleural effusion. J Thorac Oncol 5:1544–50.

Qian Y, Wu Y, Rosman de Moraes A, et al. 2019. Fan therapy for the treatment of dyspnea in adults: A systematic review. J Pain Symptom Manage 58:481–86.

Shah N, Mehta Z, Mehta Y. 2018. High-flow nasal cannula oxygen therapy in palliative care. Fast Facts and Concepts #330. J Palliat Med 20:679–80.

Swan F, Newey A, Bland M, et al. 2019. Airflow relieves chronic breathlessness in people with advanced disease: An exploratory systematic review and meta-analyses. Pall Med 33:618–33.

Thomas JR, von Gunten CF. 2003. Management of dyspnea. Support Oncol 1:23–34.

Tiep B, Sun V, Koczywas M, et al. 2015. Pulmonary rehabilitation and palliative care for the lung cancer patients. J Hosp Palliat Nurs 17:462–68.

Verberkt CA, van den Beuken-van Everdingen MH, Schols JMGA, et al. 2017. Respiratory adverse effects of opioids for breathlessness: A systematic review and meta-analysis. Eur Respir J 50:CD1701153

Viola R, Kiteley C, Lloyd NS, et al., for the Supportive Care Guidelines Group of the Cancer Care Ontario Program in Evidence-Based Care. 2008. The management of dyspnea in cancer patients: A systematic review. Supp Care Ca 16:329–37.

Waller A, Caroline NL. 2000. Dyspnea. In Handbook of Palliative Care in Cancer. 2nd ed. Boston: Butterworth-Heinemann.

Pleurodesis for Malignant Pleural Effusions

Barbetakis N. Vassiliadis M, Kaplanis K, et al. 2004. Mitoxantrone pleurodesis to palliate malignant pleural effusion secondary to ovarian cancer. BMC Palliat Care 3:4.

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Dresler CM, Olak J, Herndon JE, et al. 2005. Phase III intergroup study of talc poudrage vs. talc slurry sclerosis for malignant pleural effusion. Chest 127:909–15.

Shaw P, Agrawal R. 2004. Pleurodesis for malignant pleural effusions. Cochrane Database Syst Rev 1:CD002916.

Cough

Truesdale K, Jurdi A. 2013. Nebulized lidocaine in the treatment of intractable cough. Am J Hosp Palliat Care 30:587–89.

Hemoptysis

Marcelin C, Soussan J, Desmots F, et al. 2018. Outcomes of pulmonary artery embolization and stent graft placement for the treatment of hemoptysis caused by lung tumors. J Vasc Interv Radiol 29:975–80.

Wand O, Guber E, Guber A, et al. 2018. Inhaled tranexamic acid for hemoptysis treatment: A randomized controlled trial. Chest 154:1379–84.

Hiccups

Bilotta F, Rosa G. 2000. Nefopam for severe hiccups (Letter). N Engl J Med 343:1973–74.

Calsina-Berna A, Garcia-Gomez G, Gonzales-Barboteo J, et al. 2012. Treatment of chronic hiccups in cancer patients: A systematic review. J Palliat Med 15:1142–50.

Cunningham VL. 2002. Benztropine for the treatment of intractable hiccups: New indication for an old drug? CJEM 4:205–6.

Hernandez SL, Fasnacht KS, Sheyner I, et al. 2015. Treatment of refractory hiccups with amantadine. J Pain Palliat Care Pharmacother 29:374–77.

Howard P, Twycross R, Shuster J, et al. 2011. Antipsychotics. J Pain Symptom Manage 41:956–65.

Polito NB, Fellows SE. 2017. Pharmacologic interventions for intractable and persistent hiccups: A systematic review. J Emerg Med 53:540–49.

Immunotherapy Toxicity

Choi J, Anderson R, Blidner A, et al. 2020. Multinational Association of Supportive Care in Cancer (MASCC) 2020 clinical practice recommendations for the management of severe dermatological toxicities from checkpoint inhibitors. Support Care Cancer 28:6119–28.

Cooksley T, Girotra M, Ginex P, et al. 2020. Multinational Association of Supportive Care in Cancer (MASCC) 2020 clinical practice recommendations for the management immune

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checkpoint inhibitor endocrinopathies and the role of advanced practice providers in the management of immune-mediated toxicities. Support Care Cancer 28:6175–81.

Dougan M, Blidner AG, Choi J, et al. 2020. Multinational Association of Supportive Care in Cancer (MASCC) 2020 clinical practice recommendations for the management of severe gastrointestinal and hepatic toxicities from checkpoint inhibitors. Support Care Cancer 28:6129–43.

Hansen ED, Wang X, Case AA, et al. 2018. Immune checkpoint inhibitor toxicity review for the palliative care clinician. J Pain Symptom Manage 56:460–72.

Lacouture ME, Sibaud V, Gerber PA, et al. 2021. Prevention and management of dermatologic toxicities related to anticancer agents: ESMO clinical practice guidelines. Ann Oncol 32:157–70.

Matts C, Beck A. 2019. Immunotherapy-related adverse effects when treating cancer #375. J Palliat Med 22:724–25.

Neelapu SS. 2019. Managing the toxicities of CAR T-cell therapy. Hematol Oncol 37:48–52.

Phillips GS, Wu J, Hellman MD, et al. 2019. Treatment outcomes of immune-related cutaneous adverse events. J Clin Oncol 37:2746–58.

Rapoport BL, Anderson R, eds. 2020. Special section: The Multinational Association of Supportive Care in Cancer (MASCC) 2020 clinical practice recommendations for the management of immune-mediated adverse events from checkpoint inhibitors. Support Care Cancer 28:6015–6181.

Shannon VR, Anderson R, Blidner A, et al. 2020. Multinational Association of Supportive Care in Cancer (MASCC) 2020 clinical practice recommendations for the management of immune-related adverse events: Pulmonary toxicity. Support Care Cancer 28:6145–57.

Suarez-Almazor ME, Pundole X, Abdel-Wahab N, et al. 2020. Multinational Association of Supportive Care in Cancer (MASCC) 2020 clinical practice recommendations for the management of immune-mediated cardiovascular, rheumatic, and renal toxicities from checkpoint inhibitors. Support Care Cancer 28:6159–73.

Thompson JA, Schneider BJ, Brahmer J, et al. 2020. Management of immunotherapy-related toxicities, version 1. JNCCN 18:231–41.

Wiesenthal AC, Patel SP, LeBlanc TW, et al. 2018. Top ten tips for palliative care clinicians caring for cancer patients receiving immunotherapies. J Palliat Med 21:694–98.

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Skin Problems

General

Deutsch A, Leboeuf NR, Lacouture ME, et al. 2020. Dermatologic adverse events of systemic anticancer therapies: Cytotoxic chemotherapy, targeted therapy, and immunotherapy. 2020 ASCO Educational Book, pp. 485–500. https://asco.org/edbook.

Lacouture ME. 2012. Dr. Lacouture's Skin Care Guide for People Living with Cancer. Cold Spring Harbor, NY: Harborside Press.

Phillips GS, Wu J, Hellman MD, et al. 2019. Treatment outcomes of immune-related cutaneous adverse events. J Clin Oncol 37:2746–58.

Hand-Foot Syndrome

Latifyan S, Genot MT, Fernez B, et al. 2020. Use of low-level laser therapy (LLST) or photobiomodulation (PBM) for the management of the hand-foot syndrome (HSF) or palmo-plantar erythrodysesthesia (PPED) associated with cancer therapy. Support Care Cancer 28:3287–90.

Lacouture ME, Sibaud V, Gerber PA, et al. 2021. Prevention and management of dermatologic toxicities related to anticancer agents: ESMO clinical practice guidelines. Ann Oncol 32:157–70.

Manchen E, Robert C, Porta C. 2011. Management of tyrosine kinase inhibitor-induced hand-foot skin reaction: Viewpoints from the medical oncologist, dermatologist, and oncology nurse. Support Oncology 9:13–22.

Miller KK, Gorcey L, McLellan BN. 2014. Chemotherapy-induced hand-foot syndrome and nail changes: A review of clinical presentation, etiology, pathogenesis, and management capsule summary. J Am Acad Dermatol 71:787–94.

Wolf SL, Qin R, Menon SP, et al. 2010. Placebo-controlled trial to determine the effectiveness of a urea/lactic acid-based topical keratolytic agent for prevention of capecitabine-induced hand-foot syndrome: North Central Cancer Treatment Group study N05C5. J Clin Oncol 28:5182–87.

EGFR-Inhibitors

Lacouture ME, Anadkat MJ, Jatoi A, et al. 2018. Dermatologic toxicity occurring during anti-EGFR-therapy in patients with metastatic colorectal cancer. Clin Colorectal Cancer 17:85–96.

Lacouture ME, Sibaud V, Gerber PA, et al. 2021. Prevention and management of dermatologic toxicities related to anticancer agents: ESMO clinical practice guidelines. Ann Oncol 32:157–70.

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Fungating Skin Lesions and Pressure Ulcers

DeConno F, Ventafridda V, Saita L. 1991. Skin problems in advanced and terminal cancer patients. J Pain Symptom Manage 6:247–56.

Gould L, Stuntz M, Giovannelli M, et al. 2015. Wound healing society 2016 update on guidelines for pressure ulcers. Wound Repair Regen 24:145–62.

Grocott P, Gethin G, Probst S. 2015. Skin problems in palliative care. In Oxford Textbook of Palliative Medicine, 5th ed, Cherny NI, Fallon MT, Kaasa S, Portenoy RK, Currow DC (eds.). Oxford: Oxford University Press, pp. 715–23.

Hayashida K, Ogino R, Yamakawa S, et al. 2020. Antiodor effects of rice bran sheets in patients with malodorous wounds. J Palliat Med 23:750–51.

Landi F, Aloe L, Russo A, et al. 2003. Topical treatment of pressure ulcers with nerve growth factor: A randomized clinical trial. Ann Intern Med 139:635–41.

Merims S, Lotem M. 2015. Skin problems in oncology. In Oxford Textbook of Palliative Medicine, 5th ed., Cherny NI, Fallon MT, Kaasa S, Portenoy RK, Currow DC (eds.). Oxford: Oxford University Press, pp. 930–39.

Waller A, Caroline NL. 2000a. Pressure sores. In Handbook of Palliative Care in Cancer. 2nd ed. Boston: Butterworth-Heinemann.

Waller A, Caroline NL. 2000b. Smelly tumors. In Handbook of Palliative Care in Cancer. 2nd ed. Boston: Butterworth-Heinemann.

Zeppetella G, Ribeiro PJ. 2003. Analgesic efficacy of morphine applied topically to painful ulcers. J Pain Symptom Manage 25:555–58.

Pruritus

Bergasa NV, Alling DW, Talbot TL, et al. 1999. Oral nalmefene therapy reduces scratching activity due to the pruritus of cholestasis: A controlled study. J Am Acad Dermatol 41:431–34.

Davis MP, Frandsen JL, Walsh D, et al. 2003. Mirtazapine for pruritus. J Pain Symptom Manage 25:288–91.

Dull MM, Kremer AE. 2019. Treatment of pruritus secondary to liver disease. Curr Gastroenterol Rep 21:48.

Duval A, Dubertret L. 2009. Aprepitant as an antipruritic agent? N Engl J Med 361:1415–16.

Dy SM, Harman SM, Braun UK, et al. 2012. To stent or not to stent: An evidence-based approach to palliative procedures at the end of life. J Pain Symptom Manage 43:795–801.

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Fawaz B, Chamseddin BH, Griffin JR. 2021. Defining the role of mirtazapine in refractory pruritus. J Dermatolog Treat 32:132–36.

Jones EA, Zylicz Z. 2005. Treatment of pruritis caused by cholestasis with opioid antagonists. J Palliat Med 8:1290–93.

Kouwenhoven TA, van de Kerkhof M, Kamsteeg M. 2017. Use of oral antidepressants in patients with chronic pruritus: A systematic review. J Am Acad Dermatol 77:1068–73.

Kwatra SG, Ständer S, Kang H. 2018. PD-1 blockade-induced pruritus treated with a mu-opioid receptor antagonist. N Engl J Med 379:1578–79.

Mu D, Deng J, Liu K-F, et al. 2017. A central neural circuit for itch sensation. Science 357:695–99.

Oaklander AL, Bowsher D, Galer B, et al. 2003. Herpes zoster itch: Preliminary epidemiological data. Pain 4:338–43.

Phillips GS, Wu J, Hellman MD, et al. 2019. Treatment outcomes of immune-related cutaneous adverse events. J Clin Oncol 37:2746–58.

Ragazzo J, Cesta A, Jassal SV, et al. 2020. Development and validation of a uremic pruritus treatment algorithm and patient information toolkit in patients with chronic kidney disease and end stage kidney disease. J Pain Symptom Manage 59:279–92.

Singh R, Patel P, Thakker M, et al. 2019. Naloxone and maintenance naltrexone as novel and effective therapies for immunotherapy-induced pruritus: A case report and brief literature review. J Onc Pract 15:347–48.

Song JS, Song H, Chau NF, et al. 2018. Resolution of refractory pruritis with aprepitant in a patient with microcytic adnexal carcinoma. J Commun Support Oncol March-April e100–e101.

To THM, Clark K, Lam L, et al. 2012. The role of ondansetron in the management of cholestatic or uremic pruritis—a systematic review. J Pain Symptom Manage 44:725–30.

Vallely JJ, Hudson KE, Locke SC, et al. 2019. Pruritus in patients with solid tumors: An overlooked supportive care need. Support Care Cancer 27:3897–3904.

Vincenzi B, Tonini G, Santini D. 2010. Aprepitant for erlotinib-induced pruritus. N Engl J Med 363:397–98.

Waller A, Caroline NL. 2000. Pruritus. In Handbook of Palliative Care in Cancer. 2nd ed. Boston: Butterworth-Heinemann.

Wang W, Zhou L, Sun L. 2017. Ondansetron for neuraxial morphine-induced pruritus: A meta-analysis of randomized controlled trials. J Clin Pharm Ther 42:383–93.

© 2022 Johns Hopkins University Press

Zylicz Z, Smits C, Krajnik M. 1998. Paroxetine for pruritus in advanced cancer. J Pain Symptom Manage 16:121–24.

Insomnia

Berger AM, Matthews EE, Kenkel AM. 2017. Management of sleep-wake disturbances comorbid with cancer. Oncology 31:610–17;642.

Brasure M, Fuchs E, MacDonald R, et al. 2016. Psychological and behavioral interventions for managing insomnia disorder: An evidence report for a clinical practice guideline by the American College of Physicians. Ann Intern Med 165:113–24.

Denlinger CS, Sanft T, Moslehi JJ., et al. 2020. NCCN guidelines insights: Survivorship, version 2.2020. J Natl Compr Canc Netw 18:1016–23.

Early, CJ. 2003. Restless leg syndrome. N Engl J Med 348:2103–9.

Guzman-Marin R, Aidan AY. 2015. Sleep disorders in patients with cancer. J Commun Support Oncol 13:148–55.

Hajjar RR. 2008. Sleep disturbance in palliative care. Clin Geriatr Med 24:83–91.

Irwin MR, Olmstead R, Carrillo C, et al. 2017. Tai chi chih compared with cognitive behavioral therapy for the treatment of insomnia in survivors of breast cancer: A randomized, partially blinded, non-inferiority trial. J Clin Oncol 35:2656–65.

Muth CC. 2017. Restless legs syndrome. JAMA 317:780.

National Comprehensive Cancer Network (NCCN). 2020d. Palliative care, version 1. NCCN Clinical Practice Guidelines in Oncology. http://www.nccn.org.

Phillips KM, Jim HS, Donovan KA. 2012. Characteristics and correlates of sleep disturbances in cancer patients. Support Care Cancer 20:357–65.

Qaseem A, Kansagara D, Forciea MA, et al. for the clinical guidelines committee of the American College of Physicians. 2016. Management of chronic insomnia disorder in adults: A clinical practice guideline from the American College of Physicians. Ann Intern Med 165:125–33.

Savard J, Ivers H, Villa J. 2011. Natural course of insomnia comorbid with cancer: An 18-month longitudinal study. J Clin Oncol 29:3580–86.

Scholz H, Trenkwalder C, Kohnen R, et al. 2011. Dopamine agonists for restless legs syndrome. Cochrane Database Syst Rev CD006009.

© 2022 Johns Hopkins University Press

Schutte-Rodin S, Broch L, Buysse D, et al. 2008. Clinical guideline for the evaluation and management of chronic insomnia in adults. J Clin Sleep Med 4:487–504.

Wilt TJ, MacDonald R, Brasure M, et al. 2016. Pharmacologic treatment of insomnia disorder: An evidence report for a clinical practice guideline by the American College of Physicians. Ann Intern Med 165:103–12.

Hot Flashes

Bordeleau L, Pritchard KI, Loprinzi CL, et al. 2010. Multicenter randomized, cross-over clinical trial of venlafaxine versus gabapentin for the management of hot flashes in breast cancer survivors. J Clin Oncol 28:5147–52.

Buchanan DT, Landis CA, Hohebsee C, et al. 2017. Effects of yoga and aerobic exercise on actigraphic sleep parameters in menopausal women with hot flashes. J Clin Sleep Med 13:11–18.

Morrow PKH, Mattair DN, Hortobagyi GN. 2011. Hot flashes: A review of pathophysiology and treatment modalities. Oncologist 216:1658–64.

Simon JA, Gaines T, LaGuadia KD, for VMS Study Group. 2016. Extended-release oxybutynin therapy for vasomotor symptoms in women: A randomized clinical trial. J N Amer Menopause Soc 23:1214–21.

Smith TJ, Loprinzi CL, Deville C. 2018. Oxybutynin for hot flashes due to androgen deprivation in men. N Engl J Med 378:1745–46

Tremblay A, Sheeran L, Aranda SK. 2008. Psychoeducational interventions to alleviate hot flashes: A systematic review. Menopause 15:193–202.

Weakness and Fatigue

General References

Fleishman SB, Khan H, Homel P, et al. 2010. Testosterone levels and quality of life in diverse male patients with cancers unrelated to androgens. J Clin Oncol 28:5054–60.

Kerr CW, Drake J, Milch RA, et al. 2012. Effects of methylphenidate on fatigue and depression: A randomized, double-blind, placebo-controlled trial. J Pain Symptom Manage 43:68–77.

Millar MP, Walsh D. 2010. Mechanisms of fatigue. J Support Oncol 8:164–74.

Moraska AR, Sood A, Dakhil SR, et al. 2010. Phase III, randomized, double-blind, placebo-controlled study of long-acting methylphenidate for cancer-related fatigue: North Central Cancer Treatment Group NCCTG-N05C7 trial. J Clin Oncol 28:3673–79.

© 2022 Johns Hopkins University Press

National Comprehensive Cancer Network (NCCN). 2020b. Cancer-related fatigue, version 2. NCCN Clinical Practice Guidelines in Oncology. https://www.nccn.org/guidelines/guidelines-detail?category=3&id=1424.

National Comprehensive Cancer Network (NCCN). 2020d. Palliative care, version 1. NCCN Clinical Practice Guidelines in Oncology. http://www.nccn.org.

Pedersen L, Lund L, Petersen MA et al. 2020. Methylphenidate as needed for fatigue in patients with advanced cancer. A prospective, double-blind, and placebo-controlled study. J Pain Symptom Manage 60:992–1002.

Porter AB, Liu H, Kohli S, et al. 2020. A phase III randomized, double-blind placebo controlled study of armodafinil (Nuvigil) to reduce cancer-related fatigue in patients with high-grade glioma. Abstract from 2020 ASCO Virtual Scientific Program. ASCO Meeting Library. https://meetinglibrary.asco.org/record/186732/abstract.

Strasser F, Bruera ED. 2002. Update of anorexia and cachexia. Hematol Oncol Clin N Am 16:589–617.

Strasser F, Palmer JL, Schover LR, et al. 2006. The impact of hypogonadism and autonomic dysfunction on fatigue, emotional function, and sexual desire in male patients with advanced cancer: A pilot study. Cancer 107:2949–57.

Temel JS, Abernathy AP, Currow DC, et al. 2016. Anamorelin in patients with non-small cell lung cancer (NSCLC) and cachexia (ROMANA 1 and ROMANA 2): Results from two randomised, double-blind, phase 3 trials. Lancet Oncol 17:519–31.

Von Haehling S, Anker SD. 2015. Treatment of cachexia: an overview of recent developments. Int J Cardiol 184:736–742.

Wang XS, Giralt SA, Mendoza TR, et al. 2002. Clinical factors associated with cancer-related fatigue in patients being treated for leukemia and non-Hodgkin's lymphoma. J Clin Oncol 20:1319–28.

Yennurajalingam S, Bruera E. 2007. Palliative management of fatigue at the close of life: "It feels like my body is just worn out." JAMA 297:295–304.

Lambert-Eaton Syndrome

Kesner VG, Oh SJ, Dimachkle MM, et al. 2018. Lambert-Eaton myasthenic syndrome. Neurol Clin 36:379–94.

Yoon CH, Owusu-Guha J, Smith A, et al. 2020. Amifampridine for the management of Lambert-Eaton myasthenic syndrome: A new take on an old drug. Ann Pharmacother 54:56–63.

© 2022 Johns Hopkins University Press

Myositis

Ravishankar A, Park SS, Olivier KR, et al. 2018. Gemcitabine-induced radiation recall myositis: Case report and review of the literature. Case Rep Oncol 11:168–78.

Anemia

Mitchell SA, Beck SL, Hood LE, et al. 2007. Putting evidence into practice: Evidence-based interventions for fatigue during and following cancer and its treatment. Clin J Oncol Nurs 11:99–113.

National Comprehensive Cancer Network. 2020c. Hematopoietic growth factors, version 2. NCCN Clinical Practice Guidelines in Oncology. https://www.nccn.org/guidelines/guidelines-detail?category=3&id=1493.

Endocrine and Metabolic Abnormalities

Gebauer J, Higham C, Langer T, et al. 2019. Endocrine and metabolic consequences of cancer treatment: A systematic review. Endocrin Rev 40:711–67.

Hypercalcemia

Feldenzer KL, Sarno J. 2018. Hypercalcemia of malignancy. J Adv Pract Oncol 9:496–504.

Wright JD, Tergas AI, Ananth CV, et al. 2015. Quality and outcomes of treatment of hypercalcemia of malignancy. Cancer Invest 33:331–39.

Hyponatremia

Gralla RJ, Ahmad F, Blais JD, et al. 2017. Tolvaptan use in cancer patients with hyponatremia due to syndrome of inappropriate antidiuretic hormone: A post hoc analysis of the SALT-1 and SALT-2 trials. Cancer Med 6:723–29.

Schrier RW, Gross P, Gheorghiade M, for the SALT investigators. 2006. Tolvaptan, a selective oral vasopressin V2-receptor antagonist, for hyponatremia. N Engl J Med 355:2099–2112.

Hypokalemia: Ectopic ACTH

Raff H, Carroll T. 2015. Cushing's syndrome: From physiologic principles to diagnosis and clinical care. J Physiol 593:493–506.

Hypoglycemia

Brown E, Watkin D, Evans J, et al. 2018. Multidisciplinary management of refractory insulinomas. Clin Endocrinol 88:615–24.

Unknown or Irreversible Causes

Zhou ES, Hall KT, Michaud AL, et al. 2019. Open-label placebo reduces fatigue in cancer survivors: A randomized trial. Support Care Cancer 27:2179–87.

© 2022 Johns Hopkins University Press

Anorexia and Cachexia

Bouleuc C, Anota A, Cornet C, et al. 2020. Impact on health-related quality of life of parenteral nutrition for patients with advanced cancer cachexia: Results from a randomized controlled trial. Oncologist 25:e843–51.

Jozwiak R, Recka K. 2020. The anorexia-cachexia syndrome: Definitions, evaluation, and nonpharmacological management #386. J Palliat Med 23:287–89.

National Comprehensive Cancer Network (NCCN). 2020d. Palliative care, version 1. NCCN Clinical Practice Guidelines in Oncology. http://www.nccn.org.

Roeland EJ, Bohlke K, Baracos VE, et al. 2020. Management of cancer cachexia: An ASCO Guideline. J Clin Oncol 38:2438–53.

DYSGEUSIA

Campagna S, Gonella S, Sperlinga R, et al. 2018. Prevalence, severity, and self-reported characteristics of taste alterations in patients receiving chemotherapy. Onc Nurs Forum 45:342–53.

Epstein JB, de Andrade e Silva SM, Epstein GL, et al. 2019. Taste disorders following cancer treatment: Report of a case series. Support Care Ca 27:4587–95.

Hovan AJ, Williams PM, Stevenson-Moore P, et al., Dysgeusia Section, Oral Care Study Group, Multinational Association of Supportive Care in Cancer (MASCC) / International Society of Oral Oncology (ISOO). 2010. A systematic review of dysgeusia induced by cancer therapies. Support Care Cancer 18:1081–87.

IJpma I, Renhen RJ, Ter Horst FJ, et al. 2015. Metallic taste in cancer patient treated with chemotherapy. Cancer Treat Rev 41:179–86.

MEGESTROL ACETATE (MEGACE) AND ANDROGENS

Earthman CP, Reid PM, Harper IT, et al. 2002. Body cell mass repletion and improved quality of life in HIV-infected individuals receiving oxandrolone. J Parenter Enteral Nutr 26:357–65.

Leinung MC, Liporace R, Miller CH. 1995. Induction of adrenal suppression by megestrol acetate in patients with AIDS. Ann Intern Med 122:843–45.

CORTICOSTEROIDS

Bruera E, Roca E, Cedaro L, et al. 1985. Action of oral methylprednisolone in terminal cancer patients: A prospective randomized double-blind study. Cancer Treat Rep 69:751–54.

Cardenas-Mori J, Lewis-Ramos V. 2020. Corticosteroids for common palliative care symptoms #395. J Palliat Med 23:987–89.

© 2022 Johns Hopkins University Press

Yavuzsen T, Davis MP, Walsh D, et al. 2005. Systematic review of the treatment of cancer-associated anorexia and weight loss. J Clin Oncol 23:8500–8511.

DRONABINOL (Δ-9-TETRAHYDROCANNABINOL)

Beal JE, Olson R, Laubenstein L, et al. 1995. Dronabinol as a treatment for anorexia associated with weight loss in patients with AIDS. J Pain Symptom Manage 10:89–97.

ENTERAL OR PARENTERAL FEEDING AND HYDRATION

Ahronheim JC. 1996. Nutrition and hydration in the terminal patient. Clin Geriatr Med 12:379–91.

Bozzetti F, Gavazzi C, Miceli R, et al. 2000. Perioperative total parenteral nutrition in malnourished gastrointestinal cancer patients: A randomized, clinical trial. JPEN 24:7–14.

Casarett D, Kapo J, Caplan A. 2005. Appropriate use of artificial nutrition and hydration—fundamental principles and recommendations. N Engl J Med 353:2607–12.

Ellershaw JE, Sutcliffe JM, Saunders CM. 1995. Dehydration and the dying patient. J Pain Symptom Manage 10:192–97.

McCann RM, Hall WJ, Groth-Junker A. 1994. Comfort care for terminally ill patients: The appropriate use of nutrition and hydration. JAMA 272:1263–66.

National Comprehensive Cancer Network (NCCN). 2020b. Cancer-related fatigue, version 2. NCCN Clinical Practice Guidelines in Oncology. https://www.nccn.org/guidelines/guidelines-detail?category=3&id=1424.

Chapter 11. Approaching the End

Agin-Liebes G, Malone T, Yalch MM, et al. 2020. Long-term follow-up of psilocybin-assisted psychotherapy for psychiatric and existential distress in patients with life-threatening cancer. J Psychopharmacol 34:155–66.

Ando M, Morita T, Akechi T, et al. 2008. One-week short-term life review interview can improve spiritual well-being of terminally ill cancer patients. Psychooncology 17:885–90.

Back AL. 2019. What psilocybin taught me about dying. J Palliat Med 22:861–62.

Billings JA. 1985. Outpatient Management of Advanced Cancer: Symptom Control, Support, and Hospice-in-the-Home. Philadelphia: Lippincott.

Block SD. 2001. Psychological considerations, growth, and transcendence at the end of life: The art of the possible. JAMA 285:2898–2905.

© 2022 Johns Hopkins University Press

Byock I. 1997. Dying Well: Peace and Possibilities at the End of Life. New York: Riverhead Books.

Byock I. 2004. The Four Things that Matter Most: A Book about Living. New York: Atria Books / Simon and Schuster.

Cain CL, McCleskey S. 2019. Expanded definitions of the "good death"? Race, ethnicity, and medical aid in dying. Sociol Health Illn 41:1175–91.

Cassell EJ. 2004. The Nature of Suffering and the Goals of Medicine. 2nd ed. New York: Oxford University Press.

Davies N, Barado-Martin Y, Vickerstaff V, et al. 2021, Enteral tube feeding for patients with severe dementia. Cochrane Database Syst Rev 8:CD013503.

Institute of Medicine (IOM). 1997. Approaching Death: Improving Care at the End of Life. Washington, DC: National Academy Press.

Jackson VJ, Ryan D (with Michelle D. Seaton). 2017. Living with Cancer: A Step-by-Step Guide for Coping Medically and Emotionally with a Serious Diagnosis. Baltimore, MD: Johns Hopkins University Press.

Ko E, Cho S, Perez R, et al. 2013. Good and bad death: Exploring the perspectives of older Mexican Americans. J Gerontol Soc Work 56:6–25.

LeBaron VT, Cooke A, Resmini J, et al. 2015. Clergy views on a good versus a poor death: Ministry to the terminally ill. J Palliat Med 18:1000–1007.

Lynn J, Harrold J, Schuster JL. 2011. Handbook for Mortals. 2nd ed. New York: Oxford University Press.

Miller BJ, Berger S. 2019. A Beginner's Guide to the End: Practical Advice for Living Life and Facing Death. New York: Simon and Schuster.

Mori M, Kuwama YU, Ashikaga T, et al. 2018. Acculturation and perceptions of a good death among Japanese Americans and Japanese living in the U.S. J Pain Symptom Manage 55:31–38.

Saracino RM, Rosenfeld B, Breitbart W, et al. 2019. Psychotherapy at the end of life. Am J Bioethics 19:19–28.

Teno JM, Gozalo P, Mitchell S, et al. 2012. Feeding tubes and the prevention or healing of pressure ulcers. Arch Intern Med 172:697–701.

Tong E, McGraw SA, Dobihal E, et al. 2003. What is a good death? Minority and non-minority perspectives. J Pall Care 19:168–75.

© 2022 Johns Hopkins University Press

Valenti KG, Jen S, Parajuli J, et al. 2020. Experiences of palliative and end-of-life care among older LGBTQ women: A review of current literature. J Palliat Med 23:1532–39.

Webb M. 1997. The Good Death: The New American Search to Reshape the End of Life. New York: Bantam.

Hospice

Cherny NI, Coyle N, Foley KM. 1996. Guidelines in the care of the dying cancer patient. Hematol Oncol Clin North Am 10:261–86.

Cicolello K, Anandarajah G. 2019. Multiple stakeholders' perspectives regarding barriers to hospice enrollment in diverse patient populations: A qualitative study. J Pain Symptom Manage 57:869–79.

Fishman J, O'Dwyer P, Lu HL, et al. 2009. Race, treatment preferences, and hospice enrollment: Eligibility criteria may exclude patients with the greatest needs for care. Cancer 115:689–97.

Harris NJ, Dunmore R, Tsheu MJ. 1996. The Medicare hospice benefit: Fiscal implications for hospice program management. Cancer Manage 3:6–11.

Henckel C, Revette A, Huntington SF, et al. 2020. Perspectives regarding hospice services and transfusion access: Focus groups with blood cancer patients and bereaved caregivers. J Pain Symptom Manage 59:1195–1203.

Higginson IJ, Daveson BA, Morrison RS, et al., for BuildCARE. 2017. Social and clinical determinants of preferences and their achievement at the end of life: Prospective cohort study of older adults receiving palliative care in three countries. BMC Geriatr 17:271. doi: 10.1186/s12877–017–0648–4.

Kreling B, Seisky C, Perret-Gentil M, et al., for the Latin American Cancer Research Coalition. 2010. "The worst thing about hospice is that they talk about death": Contrasting hospice decisions and experience among immigrant Central and South American Latinos to US-born white, non-Latino cancer caregivers. Palliat Med 24:427–34.

Leiter R. 2019. "Is Dying at Home Overrated?" New York Times, September 3, 2019. https://www.nytimes.com/2019/09/03/well/live/is-dying-at-home-overrated.html.

National Hospice and Palliative Care Organization. 2020. "About NHPCO." Accessed August 15, 2020. https://www.NHPCO.org/about-nhpco/.

Pan CX, Abraham O, Giron F, et al. 2015. Just ask: Hospice familiarity in Asian and Hispanic Adults. J Pain Symptom Manage 49:928–33.

© 2022 Johns Hopkins University Press

Palliative Care Team: Role and Integration with Oncology

Abernathy AP, Currow DC. 2011. Time for better integration of oncology and palliative care. J Onc Practice 7:346–48.

Abrahm JL. 2000. The palliative care consultation team as a model for palliative care education. In Topics in Palliative Care, vol. 4, Portenoy RK, Bruera E (eds.). Oxford: Oxford University Press.

Abrahm JL. 2012. Integrating palliative care into comprehensive cancer care. JNCCN 10:1192–98.

Back A, Friedman T, Abrahm J. 2020. Palliative care skills and new resources for oncology practices: Meeting the palliative care needs of patients with cancer and their families. ASCO Oncol Educ Book 40:1–9.

Bakitas M, Tosteson T, Li Z, et al. 2015. Early versus delayed initiation of concurrent palliative oncology care: Patient outcomes in the ENABLE III randomized controlled trial. J Clin Oncol 33:1438–45.

Bellhouse S, Galvin L, Turner L, et al. 2020. Phase I cancer trials: A qualitative study of specialist palliative care. BMJ Support Palliat Care 10:234–41.

Beninghof A, Singer A. 1992. Transdisciplinary teaming: An inservice training activity. Teaching Exceptional Children 24:58–61.

Billings JA, Block S. 1997. Palliative care in undergraduate medical education. JAMA 278:733–43.

Block SD. 2002. Medical education in end-of-life care: The status of reform. J Palliat Med 5:243–48.

Boaden N, Leaviss J. 2000. Putting teamwork in context. Med Educ 34:921–27.

Bruera E, Hui D. 2012. Conceptual models for integrating palliative care at cancer centers. J Palliat Med 15:1261–69.

Bubis LD, Davis L, Mahar A, et al. 2018. Symptom burden in the first year after cancer diagnosis: An analysis of patient-reported outcomes. J Clin Oncol 36:1103–11.

Cassel JB, Del Fabbro E, Arkenau T, et al. 2016. Phase I cancer trials and palliative care: Antagonism, irrelevance, or synergy? J Pain Symptom Manage 52:437–45.

Center to Advance Palliative Care (CAPC). 2021. About palliative care. CAPC. Accessed November 1, 2021. https://www.capc.org/about/palliative-care/.

© 2022 Johns Hopkins University Press

Cloyes KG, Hull W, Davis A. 2018. Palliative and end-of-life care for lesbian, gay, bisexual, and transgender (LGBT) cancer patients and their caregivers. Semin Oncol Nurs 34:60–71.

El-Jawahri A, LeBlanc TW, Kavanaugh A et al. 2021. Effectiveness of integrated palliative and oncology care for patients with acute myeloid leukemia: A randomized clinical trial. JAMA Oncol 7:238–45.

El-Jawahri A, LeBlanc TW, VanDusen H, et al. 2016. Effect of inpatient palliative care on quality of life 2 weeks after hematopoietic stem cell transplantation: A randomized clinical trial. JAMA 316:2094–2103.

El-Jawahri A, Traegre L, Greer JA, et al. 2017. Effect of inpatient palliative care during hematopoietic stem-cell transplant on psychological distress 6 months after transplant: Results of a randomized clinical trial. J Clin Oncol 35:3714–21.

Elsayem A, Swint K, Fisch MJ, et al. 2004. Palliative care inpatient service in a comprehensive cancer center: Clinical and financial outcomes. J Clin Oncol 22:2008–14.

Ferrell BR, Chung V, Koczywas M, et al. 2020. Dissemination and implementation of palliative care in oncology. J Clin Oncol 38:995–1001.

Ferrell BR, Temel JS, Temin S, et al. 2017. Integration of palliative care into standard oncology care: American Society of Clinical Oncology clinical practice guideline update. J Clin Oncol 35:96–112.

Finlay E, Newport K, Sivendran S, et al. 2019. Models of outpatient palliative care clinics for patients with cancer. J Oncol Pract 15:187–93.

Finlay E, Rabow MW, Buss MK. 2018. Filling the gap: Creating an outpatient palliative care program in your institution. ASCO Educ Book 38:111–21.

Gilligan T. 2003. When do we stop talking about curative care? J Palliat Med 6:657–60.

Gilligan T. 2018. Personalizing medicine. J Clin Oncol 37:165–66.

Gilligan T, Coyle N, Frankel RM, et al. 2017. Patient-clinician communication: American Society of Clinical Oncology consensus guideline. J Clin Oncol 35:3618–32.

Gilligan T, Salmi L, Enzinger A. 2018. Patient-clinician communication is a joint creation: Working together toward well-being. ASCO Educ Book 38:532–39.

Greer JA, Jacobs JM, El-Jawahri A, et al. 2018. Role of patient coping strategies in understanding the effects of early palliative care on quality of life and mood. J Clin Oncol 36:53–60.

© 2022 Johns Hopkins University Press

Hoerger M, Greer JA, Jackson VA, et al. 2018. Defining the elements of early palliative care that are associated with patient-reported outcomes and the delivery of end-of-life care. J Clin Oncol 36:1096–1102.

Hui D, Hannon BL, Zimmermann C, et al. 2018. Improving patient and caregiver outcomes in oncology: Team-based, timely, and targeted palliative care. CA Cancer J Clin 68:356–76.

LeBlanc TW, El-Jawahri A. 2015. When and why should patients with hematologic malignancies see a palliative care specialist. Palliative Care in Hematologic Malignancies. Hematology Am Soc Hematol Educ Program 2015:471–78.

LeBlanc TW, Marron JM, Ganai S, et al. 2019. Prognostication and communication in oncology. J Onc Pract 15:208–15.

Loggers ET, LeBlanc TW, El-Jawahri A, et al. 2016. Pretransplantation supportive and palliative care consultation for high-risk hematopoietic cell transplantation patients. Biol Blood Marrow Transplant 22:1299–1305.

National Comprehensive Cancer Network. 2020. Palliative care, version 1. NCCN Clinical Practice Guidelines in Oncology. https://www.nccn.org/guidelines/guidelines-detail?category=3&id=1454.

Oncology (special issue on palliative care). 2011. 25(13).

Oneschuk D, Fainsinger R, Hanson J, et al. 1997. Assessment and knowledge in palliative care in second year family medicine residents. J Pain Symptom Manage 14:265–73.

Quill TE, Abernethy AP. 2013. Generalist plus specialist palliative care—creating a more sustainable model. N Engl J Med 368:1173–75.

Rabow MW, Hardie GE, Fair JM, et al. 2000. End-of-life care content in 50 textbooks from multiple specialties. JAMA 283:771–78.

Rodenbach RA, Brandes K, Fiscella K, et al. 2017. Promoting end-of-life discussions in advanced cancer: Effects of patient coaching and question prompt lists. J Clin Oncol 35:842–51.

Schneiter MK, Karlekar MB, Crispens MA, et al. 2019. The earlier the better: The role of palliative care consultation on aggressive end of life care, hospice utilization, and advance care planning documentation among gynecologic oncology patients. Supp Care Cancer 27:1927–34.

Sedhom R, Gupta A, Kamal AH. 2020. Case for dual training in medical oncology and palliative care. JCO Oncol Pract 16:537–39.

© 2022 Johns Hopkins University Press

Smith TJ and Cassel JB. 2009. Cost and non-clinical outcomes of palliative care. J Pain Symptom Manage 38:32–44.

Smith TJ, Chung V, Hughes MT, et al. 2020. A randomized trial of a palliative care intervention for patients on phase 1 studies. J Clin Oncol 38:120001.

Stein GL, Berkman C, O'Mahony S, et al. 2020. Experiences of lesbian, gay, bisexual, and transgender patients and families in hospice and palliative care: Perspectives of the palliative care team. J Palliat Med 23:817–24.

Stevens EE, Abrahm JL. 2019. Adding silver to the rainbow: Palliative and end-of-life care for the geriatric LGBTQ patient. J Palliat Med 22:602–6.

Temel JS, Greer JA, El-Jawahri A, et al. 2017. Effects of early integrated palliative care in patients with lung and GI cancer: A randomized clinical trial. J Clin Oncol 35:834–41.

Temel JS, Greer JA, Muzikansky A, et al. 2010. Early palliative care for patients with metastatic non-small-cell lung cancer. N Engl J Med 363:733–42.

Thomas TH, Jackson VA, Carlson H, et al. 2019. Communication differences between oncologists and palliative care clinicians: A qualitative analysis of early, integrated palliative care in patients with advanced cancer. J Palliat Med 22:41–49.

Tseng YD, Krishnan MS, Jones JA, et al. 2014. Supportive and palliative radiation oncology service: Impact of a dedicated service on palliative cancer care. Pract Radiat Oncol 4:247–53.

von Gunten CF. 2002. Secondary and tertiary palliative care in US hospitals. JAMA 287:875–81.

von Gunten CF, von Roenn JH, Gradishar W, et al. 1995. A hospice / palliative medicine rotation for fellows training in hematology-oncology. J Cancer Educ 10:200–202.

Zimmermann C, Swami N, Krzyzanowska M, et al. 2014. Early palliative care for patients with advanced cancer: A cluster-randomised controlled trial. Lancet 383:1721–30.

Medical Aid in Dying / Physician-Assisted Death

AAHPM. 2020. Guidance on responding to requests for physician-assisted dying. AAHPM Advisory Brief. Accessed August 15, 2020. http://aahpm.org/positions/padbrief.

Block SD, Billings JA. 1994. Patient requests to hasten death: Evaluation and management in terminal care. Arch Intern Med 154:2039–47.

Byock I. 1997. Dying Well: Peace and Possibilities at the End of Life. New York: Riverhead Books.

© 2022 Johns Hopkins University Press

Cassell EJ. 1991. Recognizing suffering. Hastings Cent Rep 21:24–31.

Foley KM. 1991. The relationship of pain and symptom management to patient requests for physician-assisted suicide. J Pain Symptom Manage 6:289–97.

Foley KM. 1995. Pain, physician-assisted suicide, and euthanasia. Pain Forum 4:163–78.

Foley KM. 1997. Competent care for the dying instead of physician-assisted suicide. N Engl J Med 336:54–58.

Foley KM, Hendin H, eds. 2004. The Case against Assisted Suicide: For the Right to End-of-Life Care. Baltimore, MD: Johns Hopkins University Press.

Fujioka JK, Mirza RM, McDonald PL, et al. 2018. Implementation of medical assistance in dying: A scoping review of health care provider perspectives. J Pain Symptom Manage 55:1564–76.

Isenberg-Grzeda E, Bean S, Cohen C, et al. 2020. Suicide attempts after determination of ineligibility for assisted death: A case series. J Pain Symptom Manage 60:158–63.

Loggers ET, Starks H, Shannon-Dudley M, et al. 2013. Implementing a death with dignity program at a comprehensive cancer center. N Engl J Med 368:1417–24.

Oregon Public Health Division. 2019. Death with Dignity Act Annual Report: Year 22. Salem: Oregon Public Health Division.

Sulmasy DP, Finlay I, Fitzgerald F, et al. 2018. Physician-assisted suicide: Why neutrality by organized medicine is neither neutral nor appropriate. J Gen Intern Med 33:1394–99.

Quill TE. 1993. Death and Dignity. New York: Norton.

Quill TE. 2004. Dying and decision-making: Evaluation of end of life options. N Engl J Med 350:2029–32.

Quill TE, Back AL, Block SD. 2016. Responding to patients requesting physician-assisted death: Physician involvement at the very end of life. JAMA 315:245–46.

Quill TE, Lo B, Brock DW. 1997. Palliative options of last resort: A comparison of voluntarily stopping eating and drinking, terminal sedation, physician-assisted suicide, and voluntary active euthanasia, JAMA 278:2099–2104.

Quill TE, Truog RD, Pope TM. 2018. Voluntarily stopping eating and drinking: Clinical, ethical, and legal aspects. JAMA Intern Med 178:123–27.

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Chapter 12. The Last Days

Abrahm JL. 2012. Integrating palliative care into comprehensive cancer care. JNCCN 10:1192–98.

American Academy of Hospice and Palliative Medicine. 2007. AAHPM position statements. J Palliat Med 10:851–57.

American Medical Association. 2013. Opinion 2.201—Sedation to unconsciousness in end-of-life care. AMA Code of Medical Ethics' Opinions on Sedation at the End of Life. May 2013. https://journalofethics.ama-assn.org/article/ama-code-medical-ethics-opinions-sedation-end-life/2013-05.

American Nurses Association. 2001. Code of Ethics for Nurses with Interpretive Statements. Silver Springs, MD: ANA.

American Society of Health-System Pharmacists. 2002. ASHP statement on the pharmacist's role in hospice and palliative care. Am J Health Syst Pharm 59:1770–73.

Bailey FA, Williams BR. 2005. Preparation of residents for death pronouncement: A sensitive and supportive method. Palliat Support Care 3:107–14.

Beller EM, van Driel ML, McGregor L, et al. 2015. Palliative pharmacological sedation for terminally ill adults. Cochrane Database Syst Rev 1:CD010206.

Berger JT. 2010. Rethinking guidelines for the use of palliative sedation. Hastings Center Report 40:32–38.

Bernacki R, Paladino J, Neville VBVA, et al. 2019. Effect of the Serious Illness Care Program in outpatient oncology: A cluster randomized clinical trial. JAMA Intern Med 179:751–59.

Block SD. 2001. Psychological considerations, growth, and transcendence at the end of life: The art of the possible. JAMA 285:2898–2905.

Bradley CT. 2009. Roman Catholic doctrine guiding end-of-life care: A summary of the recent discourse. J Palliat Med 12:373–77.

Bradley EH, Prigerson H, Carlson MDA, et al. 2004. Depression among surviving caregivers: Does length of hospice enrollment matter? Am J Psychiatry 161:2257–62.

Byock I. 1997. Dying Well: Peace and Possibilities at the End of Life. New York: Riverhead Books.

Cassell EJ, Rich BA. 2010. Intractable end-of-life suffering and the ethics of palliative sedation. Pain Medicine 11:435–38.

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Cassem NH. 1991. The dying patient. In Massachusetts General Hospital Handbook of General Hospital Psychiatry, Cassem NH (ed.). St Louis: Mosby Year Book.

Cavanaugh TA. 1996. The ethics of death-hastening or death-causing palliative analgesic administration to the terminally ill. J Pain Symptom Manage 12:248–54.

Chakraborty R, El-Jawahri AR, Litzow MR, et al. 2017. A systematic review of religious beliefs about end-of-life issues in the five major world religions. Palliat Support Care 15:609–22.

Cherny NI. 2006. Sedation for the care of patient with advanced cancer. Nat Clin Pract Oncol 3:492–500.

Cherny NI, Radbruch L; Board of the European Association for Palliative Care. 2009. European Association of Palliative Care (EAPC) recommended framework for the use of sedation in palliative care. Palliat Med 23:581–93.

Christakis NA, Iwashyna TJ. 2003. The health impact of health care on families: A matched cohort study of hospice use by decedents and mortality outcomes in surviving, widowed spouses. Soc Sci Med 57:465–75.

Claessens P, Menten J, Schotsmans P, et al. 2008. Palliative sedation: A review of the research literature. J Pain Symptom Manage 36:310–33.

Doyle-Brown M. 2000. The transitional phase: The closing journey for patients and family caregivers. Am J Hospice Palliat Care 17:354–57.

Ellershaw JE, Sutcliffe JM, Saunders CM. 1995. Dehydration and the dying patient. J Pain Symptom Manage 10:192–97.

Ferris TGG, Hallward JA, Ronan L, et al. 1998. When a patient dies: A survey of medical housestaff about care after death. J Palliat Med 1:231–40.

Fromme E, Billings JA. 2003. Care of the dying doctor: On the other end of the stethoscope. JAMA 290:2048–55.

Ganzini L, Goy ER, Miller LL, et al. 2003. Nurses' experiences with hospice patients who refuse food and fluids to hasten death. N Engl J Med 349:359–65.

Golf M, Paice JA, Feulner E, et al. 2004. Refractory status epilepticus. J Palliat Med 7:85–88.

Good P, Richard R, Syrmis W, et al. 2014. Medically assisted hydration for palliative care patients. Cochrane Database Sys Rev 4:CD006273. doi: 10.1002/14651858.CD006273.pub3.

Granek L, Mazzotta P, Tozer R, et al. 2012. What do oncologists want? Suggestions from oncologists on how their institutions can support them in dealing with patient loss. Support Care Cancer 20:2627–32.

© 2022 Johns Hopkins University Press

Grond S, Zech D, Schug SA, et al. 1991. Validation of World Health Organization guidelines for cancer pain relief during the last days and hours of life. J Pain Symptom Manage 6:411–22.

Hofherr ML, Abrahm JL, Rickerson E. 2020. Dexmedetomidine: A novel strategy for patients with intractable pain, opioid-induced hyperalgesia, or delirium at the end of life. J Palliat Med 23:1515–17.

Hospice and Palliative Nursing Association. 2003. Position statement: Palliative sedation at end of life. June 2003. http://www.hpna.org/pdf/Palliative_Sedation_Position_Statement_PDF.pdf.

Hui D, De La Rosa A, Wilson A, et al. 2020. Neuroleptic strategies for terminal agitation in patients with cancer and delirium at an acute palliative care unit: A single-centre, double-blind, parallel-group, randomized trial. Lancet Oncol 21:989–98.

Imai K, Morita T, Akechi T, et al. 2020. The principles of revised clinical guidelines about palliative sedation therapy of the Japanese Society for Palliative Medicine. J Palliat Med 23:1184–90.

Jackson VA, Mack J, Matsumaya R, et al. 2008. A qualitative study of oncologists' approaches to end-of-life care. J Palliat Med 11:893–906.

Kelly BJ, Varghese FT, Pelusi D. 2003. Countertransference and ethics: A perspective on clinical dilemmas in end-of-life decisions. Pall Supp Care 1:367–75.

Kelly SA, Kabir R, Keshvani N. 2020. Implantable cardioverter defibrillator management at the end of life: A teachable moment. JAMA Intern Med 180:1691–92. doi: 10.1001/jamainternmed.2020.5041.

Kintzel PE, Chase SL, Thomas W, et al. 2009. Anticholinergic medications for managing noisy respirations in adult hospice patients. Am J Health Syst Pharm 66:458–64.

Kirk TW, Mahon MM, for the Palliative Sedation Task Force of the National Hospice and Palliative Care Organization Ethics Committee. 2010. National Hospice and Palliative Care Organization (NHPCO) position statement and commentary on the use of palliative sedation in imminently dying terminally ill patients. J Pain Symptom Manage 39:914–22.

Lawlor PG, Gagnon B, Mancini IL, et al. 2000. Occurrence, causes and outcome of delirium in patients with advanced cancer: A prospective study. Arch Intern Med 160:786–94.

Lynn J, Teno JM, Phillips RS, et al., for the SUPPORT Investigators. 1997. Perceptions by family members of the dying experience of older and seriously ill patients. Ann Intern Med 126:97–106.

Maltoni M, Scarpi E, Rosati M, et al. 2012. Palliative sedation in end-of-life care and survival: A systematic review. J Clin Oncol 30:1378–83.

© 2022 Johns Hopkins University Press

McIver B, Walsh D, Nelson K. 1994. The use of chlorpromazine for symptom control in dying cancer patients. J Pain Symptom Manage 9:341–45.

McPherson ML, Kim M, Walker KA. 2012. 50 practical medication tips at end of life. J Support Oncol 10:222–29.

Moyle J. 1995. The use of propofol in palliative medicine. J Pain Symptom Manage 10:643–46.

National Ethics Committee, Veterans Health Administration. 2006. The ethics of palliative sedation as a therapy of last resort. Am J Hospice Palliat Care 23:483–49.

Pan CX, Costa BM, Yushuvayev EK, et al. 2020. Can Orthodox Jewish patients undergo palliative extubation? A challenging ethics case study. J Pain Symptom Manage 60:1260–65.

Payne SA, Hasselaar J. 2020. European palliative sedation project. J Palliat Med 23:154–55.

Pitorak EF. 2003. Care at the time of death: How nurses can make the last hours of life a richer, more comfortable experience. Am J Nurs 103:42–52.

Quill TE. 1996. A Midwife through the Dying Process: Stories of Healing and Hard Choices at the End of Life. Baltimore, MD: Johns Hopkins University Press.

Quill TE, Lo B, Brock D. 2009. Last resort options for palliative sedation. Ann Intern Med 151:421–24.

Raijmakers NJH, van Zuylen L, Constantini M, et al., for OPCARE9. 2011. Artificial nutrition and hydration in the last week of life in cancer patients: A systematic literature review of practices and effects. Ann Oncol 22:1478–86.

Redinbaugh EM, Sullivan AM, Block SD, et al. 2003. Doctors' emotional reactions to recent death of a patient: Cross-sectional study of hospital doctors. BMJ 327:185.

Samala RV, Davis MP. 2012. Palliative care per rectum. Fast Facts and Concepts #257. J Palliat Med 15:1038–39.

Schuman ZD, Abrahm JL. 2005. Implementing institutional change: An institutional case study of palliative sedation. J Palliat Med 8:666–76.

Schuman-Olivier Z, Brendel DH, Forstein M, et al. 2008. The use of palliative sedation for existential distress: A psychiatric perspective. Harv Rev Psychiatry 16:339–51.

Slavin SD, Allen LA, McIlvennan, et al. 2020. Left ventricular assist device withdrawal: Ethical, psychological, and logistical challenges. J Palliat Med 23:456–58.

Smith TH, Ritter JK, Poklis JL, et al. 2012. ABH gel is not absorbed from the skin of normal volunteers. J Pain Symptom Manage 43:961–66.

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Study to Understand Prognoses and Preferences for Outcomes and Risks of Treatment (SUPPORT). 1995. A controlled trial to improve care for seriously ill hospitalized patients. JAMA 274:1591–98.

Truog RD, Berde CB, Mitchell C, et al. 1992. Barbiturates in the care of the terminally ill. N Engl J Med 327:1678–82.

von Gunten C, Weissman DE. 2003a. Information for patients and families about ventilator withdrawal. J Palliat Med 6:775–76.

von Gunten C, Weissman DE. 2003b. Symptom control for ventilator withdrawal in the dying patient. J Palliat Med 6:774–75.

von Gunten C, Weissman DE. 2003c. Ventilator withdrawal protocol. J Palliat Med 6:773–74.

Waller A, Caroline NL. 1996. Terminal care. In Handbook of Palliative Care in Cancer. Boston: Butterworth-Heinemann.

Wee B, Hiller R. 2008. Interventions for noisy breathing in patients near to death. Cochrane Database Sys Rev 1:CD005177

Whippen DA, Canellos GP. 1991. Burnout syndrome in the practice of oncology: Result of a random survey of 1000 oncologists. J Clin Oncol 9:1916–20.

Wilcock A, Twycross R. 1996. Midazolam for intractable hiccup. J Pain Symptom Manage 12:59–61.

Wright AA, Keating NL, Balboni TA, et al. 2010. Place of death: Correlations with quality of life of patients with cancer and predictors of bereaved caregivers' mental health. J Clin Oncol 28:4457–64.

Yachter C. Kol Torah. Vol. 17, Halacha. Teaneck, NJ: Torah Academy.

Yuen JK, Reid C, Fetters MD. 2011. Hospital do-not-resuscitate orders: Why they have failed and how to fix them. J Gen Intern Med 26:791–97.

Zimmerman CA. 2020. The origins of thirst: Sensory signals arise throughout the body and converge in the brain to regulate drinking. Science 370:45–46.

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Chapter 13. Bereavement

The Bereaved

Abrahm JL, Cooley ME, Ricacho L. 1995. Efficacy of an educational bereavement program for families of veterans with cancer. J Cancer Educ 10:207–12.

Barry LC, Kasl SV, Prigerson HG. 2002. Psychiatric disorders among bereaved persons: The role of perceived circumstances of death and preparedness for death. Am J Geriatr Psychiatry 10:447–57.

Block SD. 1985. Coping with loss. In Outpatient Management of Advanced Cancer: Symptom Control, Support, and Hospice-in-the-Home, Billings JA (ed.). Philadelphia, PA: Lippincott.

Block SD. 2001. Psychological considerations, growth, and transcendence at the end of life: The art of the possible. JAMA 285:2898–2905.

Boelan PA, de Keijser J, van den Hout MA, et al. 2007. Treatment of complicated grief: A comparison between cognitive-behavioral therapy and supportive counseling. J Consult Clin Psychol 75:271–84.

Bradley EH, Prigerson H, Carlson MDA, et al. 2004. Depression among surviving caregivers: Does length of hospice enrollment matter? Am J Psych 161:2257–62.

Chochinov H, Holland JC, Katz LY. 1998. Bereavement: A special issue in oncology. In Psycho-Oncology, Holland JC (ed.). New York: Oxford University Press.

Christakis NA, Iwashyna TJ. 2003. The health impact of health care on families: A matched cohort study of hospice use by decedents and mortality outcomes in surviving, widowed spouses. Soc Sci and Medicine 57:465–75.

Doka KJ, Martin TL. 2010. Grieving beyond Gender: Understanding the Ways Men and Women Mourn. Rev. ed., Death, Dying, and Bereavement series, Neimeyer R (ed.). New York: Routledge.

Greer S. 2010. Bereavement care: Some clinical observations. Psychooncology 19:1156–60.

ICD. 2021. Prolonged grief disorder. ICD-11, version 05/2021. https://icd.who.int/browse11/l-m/en#/http://id.who.int/icd/entity/1183832314.

Kissane DW, Zaider TI. 2015. Bereavement. In Oxford Textbook of Palliative Medicine, 5th ed., Cherny NI, Fallon MT, Kassa S, et al. (eds.). Oxford: Oxford University Press.

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Kristensen P, Dyregrov K, Dyregrov A. 2017. What distinguishes prolonged grief disorder from depression? Tidsskr Nor Laegeforen 137:538–39. English, Norwegian. doi: 10.4045/tidsskr.16.0629. PMID: 28383227.

Lobb EA, Kristjanson LJ, Aoun SM, et al. 2010. Predictors of complicated grief: A systematic review of empirical studies. Death Stud 34:673–98. doi: 10.1080/07481187.2010.496686. PMID: 24482845.

Lundorff M, Holmgren H, Zachariae R, et al. 2017. Prevalence of prolonged grief disorder in adult bereavement: A systematic review and meta-analysis. J Affect Disord 212:138–49.

Maciejewski PK, Zhang B, Block SD, et al. 2007. An empirical examination of the stage theory of grief. JAMA 297:716–23.

Morris S. 2018. Overcoming Grief: A Self-Help Guide Using Cognitive Behavioral Techniques. London: Robinson.

Morris S, Block S. 2012. Grief and bereavement. In Clinical Psycho-Oncology: An International Perspective, Grassi L, Riba M (ed.). Hoboken, NJ: Wiley.

Morris SE, Block SD. 2015. Adding value to palliative care services: The development of an institutional bereavement program. J Palliat Med 18:915–22.

Morris SE, Dole OR, Joselow M, et al. 2017. The development of a hospital-wide bereavement program: Ensuring bereavement care for all families of pediatric patients. J Pediatr Health Care 31:88–95.

Nouwen H. 1979. The Wounded Healer. Garden City, NY: Doubleday.

Parkes CM. 1987. Bereavement: Studies of Grief in Adult Life. 2nd ed. Madison, CT: International Universities Press.

Parkes CM. 1998. Bereavement in adult life. BMJ 316:856–59.

Prigerson HG, Bierhals AJ, Kasl SV, et al. 1996. Complicated grief as a disorder distinct from bereavement-related depression and anxiety: A replication study. Am J Psychiatry 153:1484–86.

Prigerson HG, Horowitz MJ, Jacobs SC, et al. 2009. Prolonged grief disorder: Psychometric validation of criteria proposed for DSM-V and ICD-11. PLoS Med 6:e1000121, doi: 10.1371/journal.pmed.1000121.

Prigerson HG, Jacobs SC. 2001. Caring for bereaved patients: “All the doctors just suddenly go.” JAMA 286:1369–76.

Rando TA. 1984. Grief, Dying, and Death: Clinical Interventions for Caregivers. Champaign, IL: Research Press.

© 2022 Johns Hopkins University Press

Rando TA. 1993. Treatment of Complicated Mourning. Champaign, IL: Research Press.

Shear MK. 2010. Complicated grief treatment: The theory, practice and outcomes. Bereave Care 29:10–14. doi: 10.1080/02682621.2010.522373.

Shear K, Frank E, Houck PR, et al. 2005. Treatment of complicated grief: A randomized controlled trial. JAMA 293:2601–8.

Shear MK, Reynolds CF 3rd, Simon NM, et al. 2016. Optimizing treatment of complicated grief: A randomized clinical trial. JAMA Psychiatry 73:685–94. doi: 10.1001/jamapsychiatry.2016.0892. PMID: 27276373; PMCID: PMC5735848.

Stroebe M, Schut H, Stroebe W. 2007. Health outcomes of bereavement. Lancet 370:1960–73.

Worden JW. 1985. Bereavement. Semin Oncol 12:472–75.

Wright AA, Keating NL, Balboni TA, et al. 2010. Place of death: Correlation with quality of life of patients with cancer and predictors of bereaved caregivers' mental health. J Clin Oncol 28:4457–64.

Zhang B, El-Jawahri A, Prigerson HG. 2006. Update on bereavement research: Evidence-based guidelines for the diagnosis and treatment of complicated bereavement. J Palliat Med 9:1188–1203.

Zisook S, Shuchter SR, Pedrelli P, et al. 2001. Bupropion sustained-release treatment for bereavement: Results of an open trial. J Clin Psychiatry 62:227–30.

Wounded Healers

Dyrbye LN, Thomas MR, Massie S, et al. 2008. Burnout and suicidal ideation among US medical students. Ann Intern Med 149:334–41.

Figley CR, ed. 1995. Compassion Fatigue: Coping with Secondary Traumatic Stress in Those Who Treat the Traumatized. London: Brunner-Routledge.

Gilligan T. 2003. When do we stop talking about curative care? J Palliat Med 6:657–60.

Kearney MK, Weininger RB, Vachon MLS, et al. 2009. Self-care for physicians caring for patients at the end of life: "Being connected . . . a key to my survival." JAMA 301:1155–64.

McFarland DC, Hlubocky F, Susaimanickam B, et al. 2019. Addressing depression, burnout, and suicide in oncology physicians. Am Soc Clin Oncol Educ Book. 39:590–98. doi: 10.1200/EDBK_239087.

Meier DE, Back AL, Morrison RS. 2001. The inner life of physicians and care of the seriously ill (the patient-physician relationship). JAMA 286:3007–14.

© 2022 Johns Hopkins University Press

Morris SE, Kearns JP, Moment A, et al. 2019. “Remembrance”: A self-care tool for clinicians. J Palliat Med 22:316–18.

Murali K, Makker V, Lynch J, et al. 2018. From burnout to resilience: An update for oncologists. 2018 ASCO Educ Book 38:862–72.

Nouwen H. 1979. The Wounded Healer. Garden City, NY: Doubleday.

Novak DH, Suchman AL, Clark W, et al. 1997. Calibrating the physician: Personal awareness and effective palliative care. JAMA 278:502–9.

Penberthy JK, Chhabra D, Ducar DM, et al. 2018. Impact of coping and communication skills program on physician burnout, quality of life, and emotional flooding. Saf Health Work 9:381–87.

Raphael MJ, Fundytus A, Hopman WM, et al. 2019. Medical oncology job satisfaction: Results of a global survey. Semin Oncol 46:73–82.

Remen RN. 1996. Kitchen Table Wisdom: Stories That Heal. New York: Riverhead Books.

Remen RN. n.d. The Healer’s Art. Syllabus available from the Institute for the Study of Health and Illness at Commonweal: FHC curriculum. www.rishiprograms.org.

Shanafelt T, Dyrbye L. 2012. Oncologist burnout: Causes, consequences, and responses. J Clin Oncol 30:1235–41.

Stahl B, Goldstein E. 2010. A Mindfulness-Based Stress Reduction Workbook. Oakland, CA: New Harbinger.

Thomas JD. 2019. Breaching the professional-personal boundary—An unrecognized risk for burnout. N Engl J Med 381:998–99.

Thomas NK. 2004. Resident burnout. JAMA 292:2880–89.

Vachon MLS. 2010. Oncology staff stress and related interventions. In Psycho-Oncology, 2nd ed., Holland JC, Breitbart WS, Jacobsen PB, et al. (eds.). Oxford: Oxford University Press.

Von Roenn JH, Temel J. 2011. The integration of palliative care and oncology: The evidence. Oncology 25:1258–66.

West CP, Dyrbye LN, Shanafelt TD. 2018. Physician burnout: Contributors, consequences and solutions. J Intern Med 283:516–29. https://doi.org/10.1111/joim.12752.

Wright B. 2004. Compassion fatigue: How to avoid it. J Palliat Med 18:4–5.

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