

NCCN Clinical Practice Guidelines in Oncology (NCCN Guidelines®)

Palliative Care

Version 2.2021 — February 12, 2021

NCCN.org

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- ▶ Internal medicine
- † Medical oncology € Pediatric oncology
- § Radiation oncology
- £ Supportive care including hospice and palliative care medicine, pain management
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NCCN Palliative Care Panel Members
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Clinical Trials: NCCN believes that the best management for any patient with cancer is in a clinical trial. Participation in clinical trials is especially encouraged.

To find clinical trials online at NCCN Member Institutions, <u>click here:</u> <u>nccn.org/clinical_trials/member_institutions.aspx.</u>

NCCN Categories of Evidence and Consensus: All recommendations are category 2A unless otherwise indicated.

See NCCN Categories of Evidence and Consensus.

The NCCN Guidelines® are a statement of evidence and consensus of the authors regarding their views of currently accepted approaches to treatment. Any clinician seeking to apply or consult the NCCN Guidelines is expected to use independent medical judgment in the context of individual clinical circumstances to determine any patient's care or treatment. The National Comprehensive Cancer Network® (NCCN®) makes no representations or warranties of any kind regarding their content, use or application and disclaims any responsibility for their application or use in any way. The NCCN Guidelines are copyrighted by National Comprehensive Cancer Network®. All rights reserved. The NCCN Guidelines and the illustrations herein may not be reproduced in any form without the express written permission of NCCN. ©2021.



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Updates in Version 2.2021 of the NCCN Guidelines for Palliative Care from Version 1.2021 include:

MS-1

The Discussion section has been updated to reflect the changes in the algorithm.

Updates in Version 1.2021 of the NCCN Guidelines for Palliative Care from Version 1.2020 include:

Global Change:

- The following changes have been made throughout the guideline.
- **→** Changed interdisciplinary to *interprofessional*
- ▶ Changed non-opioid naïve to opioid tolerant

PAL-1

Definition of Palliative Care

• The goal of palliative care is to anticipate, prevent, and reduce suffering; promote adaptive coping; and to support the best possible quality of life for patients/families/caregivers, regardless of the stage of the disease or the need for other therapies.

Standards of Palliative Care

- 5th bullet, modified: Palliative care specialists and interdisciplinary interprofessional palliative care teams, including but not limited to, board-certified palliative care physicians, advanced practice nurses, physician assistants, nurses, dietitians....
- Footnote b is new to the page: Seaman JB, Lakin JR, Anderson E, et al. Culture is a new sub-bullet under "Communication barriers" Interdisciplinary or Interprofessional: Why Terminology in Teamwork Matters to Hospice and Palliative Care. J Palliat Med 2020;23:1157-1158.

PAL-2

Indications:

- 3rd bullet, modified: Serious comorbid physical, psychiatric, and psychosocial conditions
- 7th bullet, modified: Advanced cancers associated with high morbidity Interventions: and mortality Metastatic solid tumors and refractory hematologic malignancies (Also for PAL-3).

Interventions:

- 4th bullet is new to the page: Promote adaptive coping.
- 11th bullet, modified: Transition to end-of-life care including hospice referral as appropriate Hospice referral

PAL-5

- Provide age-appropriate social support services, is a new sub-bullet under Resource needs
- The following bullets are new to the page for psychosocial distress:
- **▶** Employment/loss of employment
- Social isolation and/or loneliness

PAL-6

If unacceptable

- 2nd bullet, modified: To Evaluate and treat undiagnosed psychiatric disorders, and substance use disorders, and inadequate coping methods
- Moved "consult with the following," "mental health professional," and "addiction specialist" as sub-bullets under the bullet above
- 4th bullet is new to the page: Promote adaptive coping.

PAL-7

Assessment

- 3rd bullet, modified: Concerns about decision-making capacity
- 6th bullet, 5th sub-bullet, modified: Multiple drug "allergies" or a History of multiple adverse...
- 6th bullet, 6th sub-bullet, modified: Concerns regarding History of diagnosis/ suspicion of substance use disorder - see addiction specialist Refer to chemical dependency program as needed

PAL-8

Assessment

- Oncology care team staff challenges:
- ▶ 2nd bullet, 1st sub-bullet modified: Intra-team or inter-team conflict
- > 2nd bullet, 2nd sub-bullet is new to the page: Communication surrounding complex decision-making.

PAL-9

- Years to months, new bullets:
- > Optimize psychosocial support for patient and family/caregivers
- Consider nonpharmacologic and/or integrative interventions (eq. massage, art or music therapy)
- Months to weeks, 4th bullet modified: Consider palliative RT
- Assess for appropriateness of palliative RT therapies or interventional procedures for spinal cord compression; brain metastases; superior vena cava (SVC) syndrome; dyspnea due to cancer-related bronchial obstruction; cancerrelated bleeding; painful bone metastases; and leptomeningeal carcinomatosis
- Weeks to days, new bullet: Consider nonpharmacologic and/or integrative interventions (eg, heat or ice, positioning or support)
- The last bullet under "If unacceptable" is new to the page: Consider hospice referral as appropriate. Continued

UPDATES



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Updates in Version 1.2021 of the NCCN Guidelines for Palliative Care from Version 1.2020 include:

PAL-10

Interventions for Pain

- The following bullets are new to the page:
- ▶ Optimize psychosocial support for patient and family/caregivers
- Consider nonpharmacologic and/or integrative interventions (massage, art or music therapy)
- The first two sub-bullets have been modified: Maintain analgesic therapy; titrate to optimal comfort
- Balance analgesia against reduced level of consciousness as possible or desired
- Avoid opioid dose reduction solely for decreased blood pressure or respiration rate or level of consciousness
- The last bullet under "If unacceptable" is new to the page: Consider hospice referral as appropriate

<u>PAL-11</u>

Reassessment/ Acceptable outcomes for Dyspnea

- The following bullets are new to the page: (Also for PAL-12)
- ▶ Acceptable sense of control
- ▶ Optimized quality of life
- Decrease in caregiver burden

PAL-13

Assessment and Interventions for Anorexia/Cachexia

- The following bullets are new to the page:
- ▶ Dental and/or jaw issues
- ▶ Intractable hiccups
- **▶** Consider swallowing evaluation
- Months to weeks: modified the following sub-bullet: Consider nutritionconsult registered dietitian consult
- Bullet deleted: Consider an exercise program designed to enhance mobility and conserve energy

PAL-14

 Last bullet modified: Discontinuing previously initiated enteral or parenteral nutrition near the end of life is appropriate, ethically permissible, and may improve some symptoms. Withholding or withdrawing nutrition is ethically permissible and may improve some symptoms

PAL-19

Antidiarrheal Interventions

 Grade 1, 3rd bullet, modified: Initiate antidiarrheal (eg, diphenoxylate/ atropine) if patient not already on opioids

PAL-23

- Under Screen for and treat underlying reversible causes of delirium
- Modified the first sub-bullet: Metabolic causes and medication withdrawal

PAL-29

Interventions

- Modified 2nd bullet: Ask patient...."completed any advance care planning documents" (for example a living will, medical power or attorney...)
- Modified 3rd bullet: Explore hopes, worries, and fears about the future Explore fears about the future and provide emotional support
- 5th bullet, new: Make recommendation about future care if patient values and goals lead to a clear recommendation regarding future treatment
- 6th bullet deleted: If patient values and goals lead to a clear recommendation regarding future treatment in light of disease status, physician should make a recommendation about future care

PAL-3'

- Modified 2nd bullet under explore the reasons for the request for a hastened death...
- ▶ Ask about individual values, *purpose and meaning* and personal views of spiritual/existential...

PAL-32

Practical

• 5th sub-bullet added the following: Facilitate virtual family visits, if in-person visits are restricted or not possible

PAL-33

Palliative Sedation

 Refer to institutional guidelines/policy for additional guidance is new to the page.

PAL-A (1 of 5)

Palliative Care Drug Appendix:

- The following reference has been added: Roeland EJ, Bohlke K, Baracos VE, et al. Management of Cancer Cachexia; ASCO Guideline. J Clin Oncol 2020,38(21):2438-2453.
- Modified the dosing as follows for Anorexia/Cachexia, Life expectancy: Years; Year to Months: Low/no appetite: Megestrol acetate, 400-800 200-600 mg/day PO
- Modified the dosing as follows for Anorexia/Cachexia, Life expectancy: Months to Weeks; Weeks to Days (dying patient): Low/no appetite: for dexamethasone, 4–8 3–4 mg/day PO

PAL-A (3 of 5)

- Malignant Bowel Obstruction
- ▶ 6th bullet and corresponding reference deleted: Octreotide, 300 mcg TID, metoclopramide 10 mg q6h and dexamethasone 4 mg BID, am and mid-day
- ▶ Berger J, et al. Am J Hosp Palliat Care. 2016;33:407-410.

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NCCN Guidelines Version 2.2021 Palliative Care

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Definition of Palliative Carea,b

Palliative care is an approach to patient/family/caregiver-centered health care that focuses on optimal management of distressing symptoms, while incorporating psychosocial and spiritual care according to patient/family/caregiver needs, values, beliefs, and cultures. The goal of palliative care is to anticipate, prevent, and reduce suffering; promote adaptive coping; and support the best possible quality of life for patients/families/caregivers, regardless of the stage of the disease or the need for other therapies. Palliative care can begin at diagnosis; be delivered concurrently with disease-directed, life-prolonging therapies; and facilitate patient autonomy, access to information, and choice. Palliative care becomes the main focus of care when disease-directed, life-prolonging therapies are no longer effective, appropriate, or desired. Palliative care should be provided by the primary oncology team and augmented as needed by collaboration with an interprofessional team of palliative care experts.

Standards of Palliative Care^{c,d}

- Institutions should develop processes for integrating palliative care into cancer care, both as part of usual oncology care and for patients with specialty palliative care needs.
- All cancer patients should be screened for palliative care needs at their initial visit, at appropriate intervals, and as clinically indicated.
- Patients/families/caregivers should be informed that palliative care is an integral part of their comprehensive cancer care.
- Educational programs should be provided to all health care professionals and trainees so that they can develop effective palliative care knowledge, skills, and attitudes.
- Palliative care specialists and interprofessional palliative care teams, including but not limited to board-certified palliative care physicians, advanced practice nurses, physician assistants, nurses, dietitians, social workers, chaplains, and pharmacists, should be readily available to provide consultative or direct care to patients/families/caregivers and/or health care professionals who request or require their expertise.
- Quality of palliative care should be monitored by institutional quality improvement programs.

Note: All recommendations are category 2A unless otherwise indicated.

^aHui D, et al. J Pain Symptom Manage 2012;43:582-592.

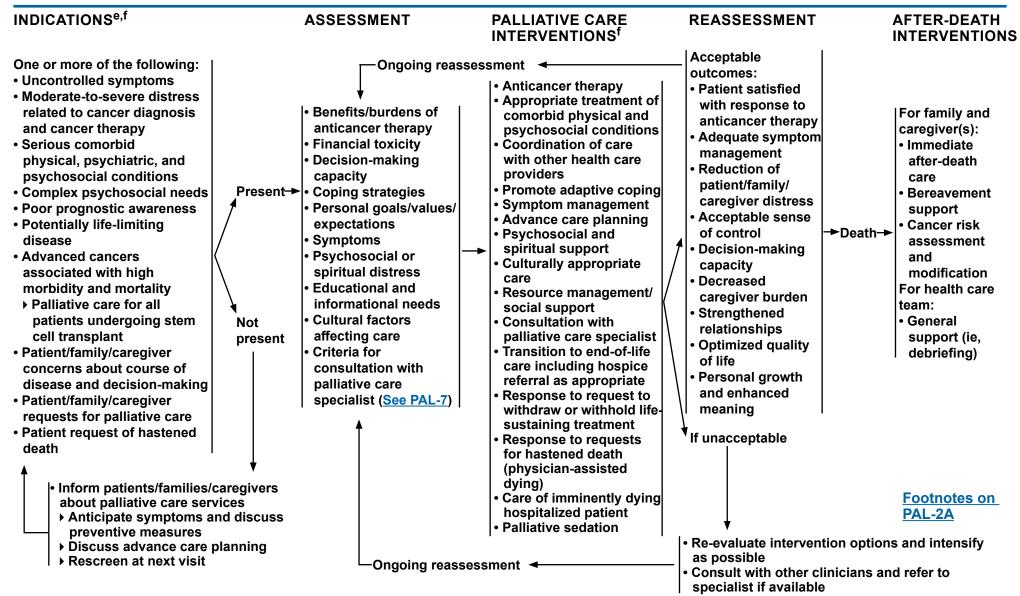
^bSeaman JB, et al. J Palliat Med 2020;23:1157-1158.

^cFerris FD, et al. J Clin Oncol 2009;27:3052-3058.

dIOM (Institute of Medicine). 2014 Dying in America: Improving quality and honoring individual preferences near the end of life. Washington, DC: The National Academies Press. Available at: www.nap.edu/read/18748/chapter/1.



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Note: All recommendations are category 2A unless otherwise indicated.

Clinical Trials: NCCN believes that the best management of any patient with cancer is in a clinical trial. Participation in clinical trials is especially encouraged.

Assessment by Oncology Team (PAL-3)



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FOOTNOTES

ePatients with one or more positive indicators may benefit from a care plan developed by an interprofessional team of physicians, nurses, social workers, mental health professionals, chaplains, advanced practice clinicians, and other health care professionals.

fOncologists should integrate palliative care into general oncology care. Early consultation/collaboration with a palliative care specialist/hospice team should be considered to improve quality of life and survival.

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Comprehensive Cancer Palliative Care

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INDICATIONS^{e,f} ASSESSMENT BY ONCOLOGY TEAM Benefits/burdens of Uncontrolled symptoms anticancer therapy^{g,h} Moderate-to-severe distress related to cancer Symptoms diagnosis and/or cancer therapy Psychosocial distress · Serious comorbid physical, psychiatric, and psychosocial conditions Patient/family/caregiver concerns about course Personal goals/values/ of disease and decision-making expectations Present Patient/family/caregiver requests for palliative • Educational and informational care needs Advanced cancers associated with high Cultural factors affecting care morbidity and mortality • Evidence of worsening prognosis, including: • Criteria for consultation with a _____ See PAL-7 **▶** Potentially life-limiting disease palliative care specialist **▶** Poor performance status ECOG ≥3 or KPS ≤50 **▶** Persistent hypercalcemia ▶ Brain or cerebrospinal fluid metastasis ▶ Delirium Not present **▶** Malignant bowel obstruction ▶ Superior vena cava (SVC) syndrome **▶** Spinal cord compression ▶ Cachexia **▶** Malignant effusions > Palliative stenting or need for venting • Inform the patient/family/caregiver about palliative care services gastrostomy ▶ Anticipate symptoms and discuss preventive measures **→** Discuss advance care planning ▶ Rescreen at next visit

Note: All recommendations are category 2A unless otherwise indicated.

ePatients with one or more positive indicators may benefit from a care plan developed by an interprofessional team of physicians, nurses, social workers, mental health professionals, chaplains, advanced practice clinicians, and other health care professionals.

fOncologists should integrate palliative care into general oncology care. Early consultation/collaboration with a palliative care specialist/hospice team should be considered to improve quality of life and survival.

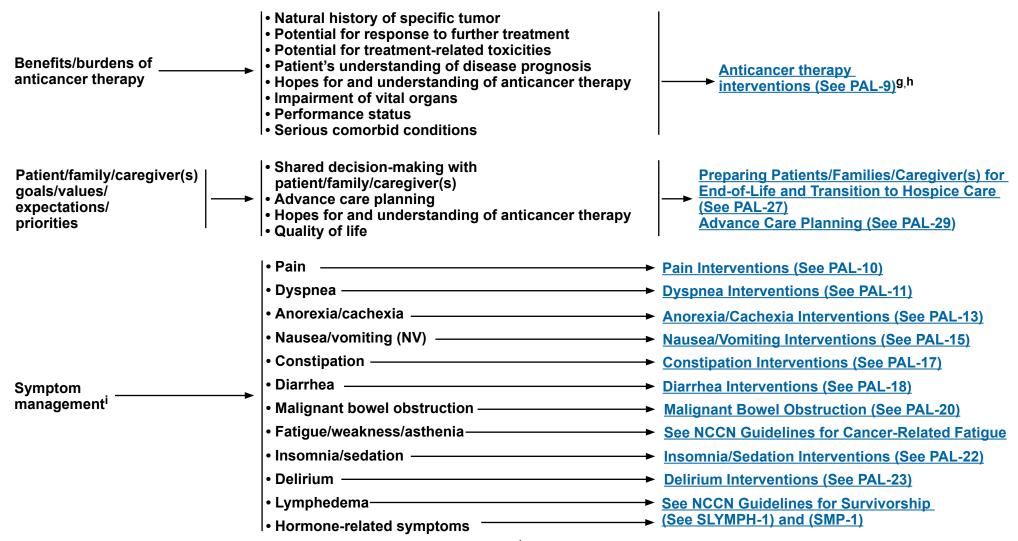
gSee FEV-D in the NCCN Guidelines for Prevention and Treatment of Cancer-Related Infections for an approach to assess for the risk of serious complications in patients with neutropenic fever.

hFor an approach to decision-making in older adults and geriatric screening tools, see the NCCN Guidelines for Older Adult Oncology.



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ASSESSMENT BY ONCOLOGY TEAM



⁹See FEV-D in the NCCN Guidelines for Prevention and Treatment of Cancer-Related Infections for an approach to assess for the risk of serious complications in patients with neutropenic fever.

ⁱLook for opportunities to use single agents to treat multiple symptoms.

Note: All recommendations are category 2A unless otherwise indicated.

^hFor an approach to decision-making in older adults and geriatric screening tools, see the NCCN Guidelines for Older Adult Oncology.



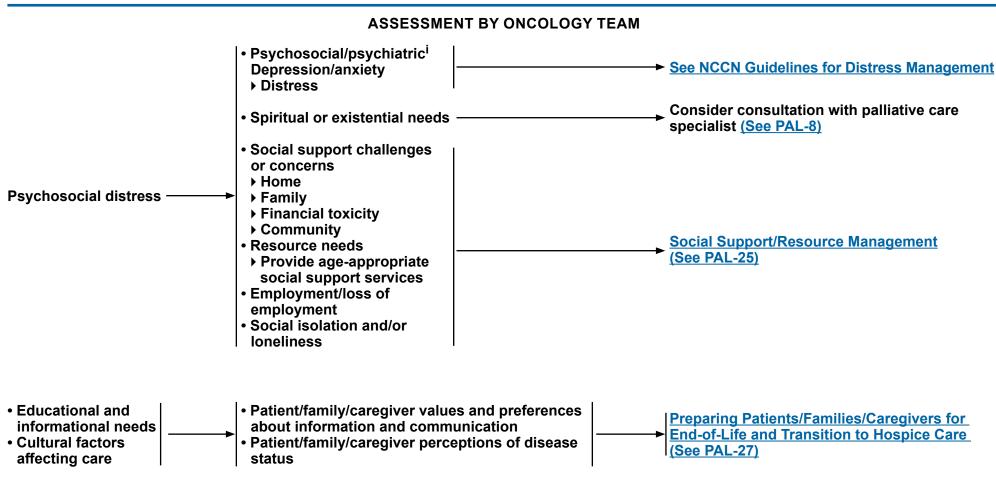
Criteria for consultation

with palliative care

specialist

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⁹See FEV-D in the NCCN Guidelines for Prevention and Treatment of Cancer-Related Infections for an approach to assess for the risk of serious complications in patients with neutropenic fever.

→ (See PAL-7)⁹

Look for opportunities to use single agents to treat multiple symptoms.

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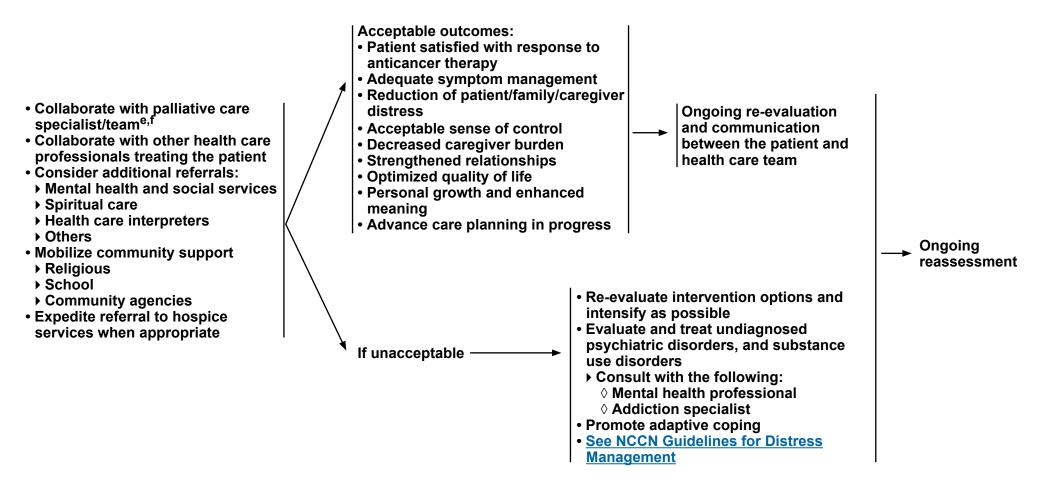


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ONCOLOGY TEAM INTERVENTIONS

REASSESSMENT



ePatients with one or more positive indicators may benefit from a care plan developed by an interprofessional team of physicians, nurses, social workers, mental health professionals, chaplains, advanced practice clinicians, and other health care professionals.

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fOncologists should integrate palliative care into general oncology care. Early consultation/collaboration with a palliative care specialist/hospice team should be considered to improve quality of life and survival.



Patient

characteristics

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CRITERIA FOR CONSULTATION WITH PALLIATIVE CARE SPECIALIST

ASSESSMENT

- See Assessment by Oncology Team (PAL-3)
- Limited anticancer treatment options due to:
- ▶ Limited access to anticancer treatment
- **▶** Advanced disease process
- ▶ Multiple and/or severe comorbid conditions
- ▶ Rapidly progressive functional decline or persistently poor performance status
- Concerns about decision-making capacity [See NCCN Guidelines for Older Adult Oncology (OAO-1)]
- Need for clarification of goals of care
- Resistance to engage in advance care planning
- High risk of poor pain management or pain that remains resistant to conventional interventions, eg:
- ▶ Neuropathic pain
- Incident or breakthrough pain
- ▶ Pain with severe associated psychosocial and/or family distress
- ▶ Rapid escalation of opioid dose
- ▶ History of multiple adverse reactions to pain and symptom management interventions
- ▶ History of diagnosis/suspicion of substance use disorder Refer to chemical dependency program as needed (See NCCN Guidelines for Adult Cancer Pain)
- High non-pain symptom burden, especially those resistant to conventional management (See PAL-4 for symptoms)
- High distress score (>4) (See NCCN Guidelines for Distress Management)
- Need for invasive procedures (eg, palliative stenting or venting gastrostomy)
- Frequent emergency department visits or hospital admissions
- Need for ICU-level care (especially involving multi-organ system failure or prolonged mechanical support)
- Communication barriers
- ▶ Language
- **▶** Literacy
- ▶ Culture
- ▶ Physical barriers
- **▶** Cognitive impairment
- Request for hastened death

See Oncology ► Team Interventions (PAL-6)

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Clinical Trials: NCCN believes that the best management of any patient with cancer is in a clinical trial. Participation in clinical trials is especially encouraged.

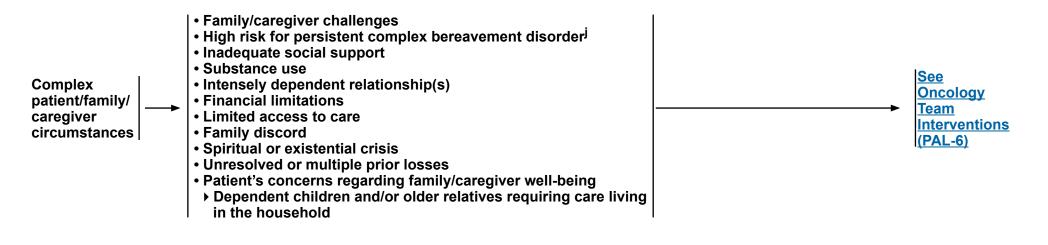
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CRITERIA FOR CONSULTATION WITH PALLIATIVE CARE SPECIALIST

ASSESSMENT





- Complex care coordination issues within and among multiple care teams
- Compromised resilience including:
- ▶ Intra-team or inter-team conflict
- **▶** Compassion fatigue
- ▶ Moral distress and/or ethical concerns
- **▶** Burnout
- Communication surrounding complex decision-making

Persistent complex bereavement disorder is a chronic heightened state of mourning that significantly impairs functioning.

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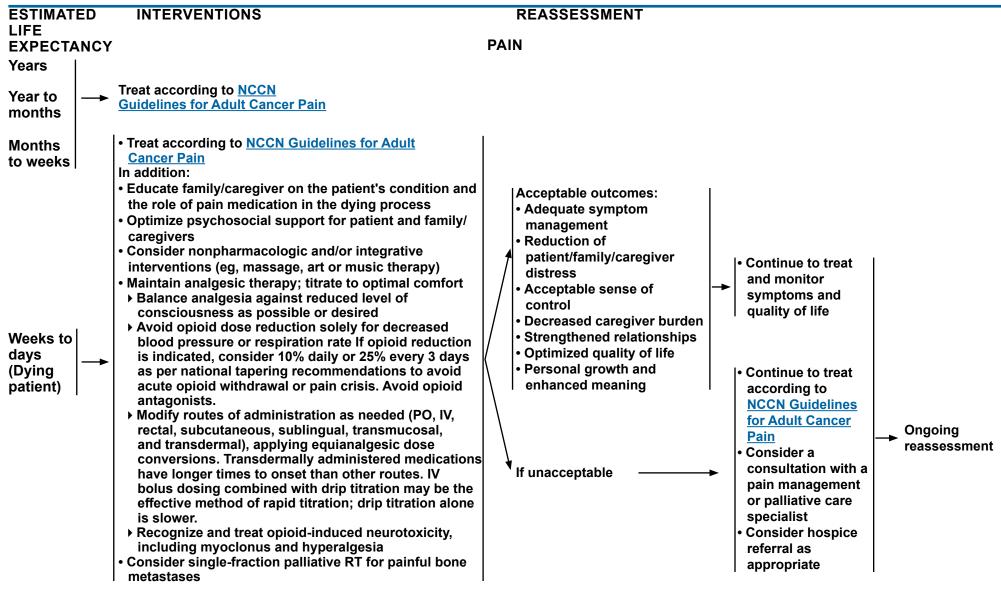
BENEFITS/BURDENS OF ANTICANCER THERAPY **ESTIMATED** INTERVENTIONS REASSESSMENT LIFE **EXPECTANCY** Assess understanding of prognosis and goals of therapy Discuss whether anticancer therapy is palliative or curative Acceptable outcomes: • Prepare patient psychologically for possible disease progression Adequate symptom or recurrence management Offer goal-directed supportive care, including referral to specialized Reduction of palliative care services, if indicated **Years** patient/family/caregiver Provide appropriate anticancer therapy that is aligned with stated to Continue distress patient goals and priorities months anticancer Improved prognostic Provide primary palliative care, including anti-cancer treatment therapy and awareness and disease-related symptom management and encouragement of palliative care Acceptable sense of advance care planning control Optimize psychosocial support for patient and family/caregivers **Decreased caregiver** Consider nonpharmacologic and/or integrative interventions (eg. burden massage, art or music therapy) Optimized quality of life Confirm the patient's understanding of incurability of disease • Redirect goals and hopes to those that are achievable based on likely prognosis and life expectancy Provide guidance regarding anticipated course of disease Consider palliative RT **Months** ▶ Assess for appropriateness of palliative RT therapies or Ongoing to Change or discontinue interventional procedures reassessment weeks anticancer therapy Consider discontinuation of cancer treatment not directly Review patient hopes addressing a symptom complex and understanding of Encourage advance care planning, if not already accomplished anticancer therapy Offer goal-directed supportive care, including referral to specialized Review advance care palliative care services or hospice planning Re-evaluate palliative unacceptable Discontinue all treatments not directly contributing to patient comfort care interventions and Intensify palliative care in preparation for death intensify as possible Weeks to Provide guidance regarding anticipated dying process Consult or refer to days Focus on symptom management and comfort specialized palliative Refer to hospice team care services or hospice (Dying Assist with completion of legal documents, if appropriate Consider hospice referral patient) Consider nonpharmacologic and/or integrative interventions (eg, heat as appropriate or ice, positioning or support)

Note: All recommendations are category 2A unless otherwise indicated.



Comprehensive Cancer Palliative Care

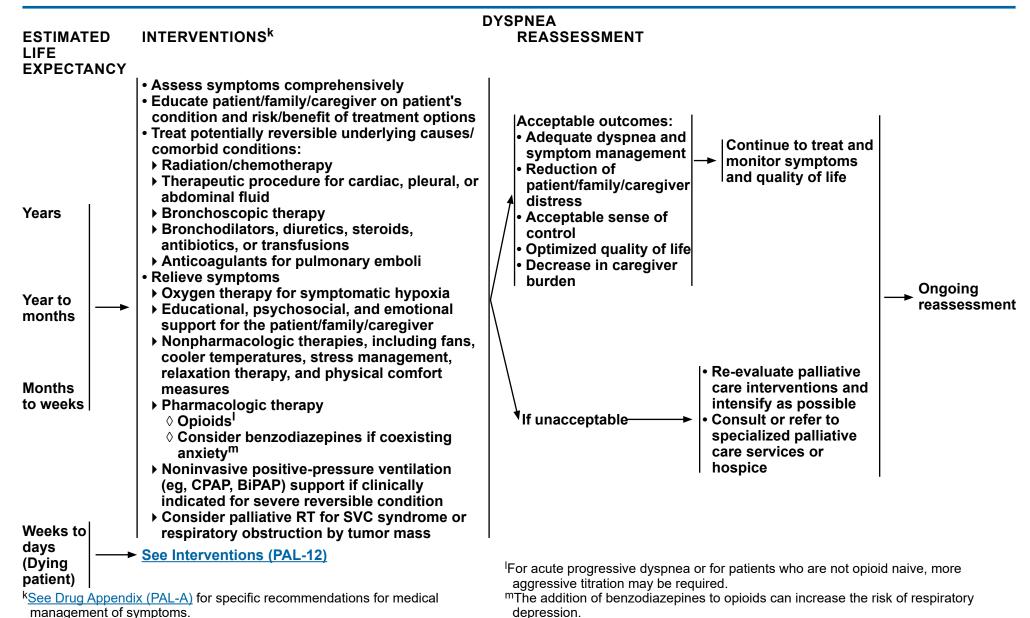
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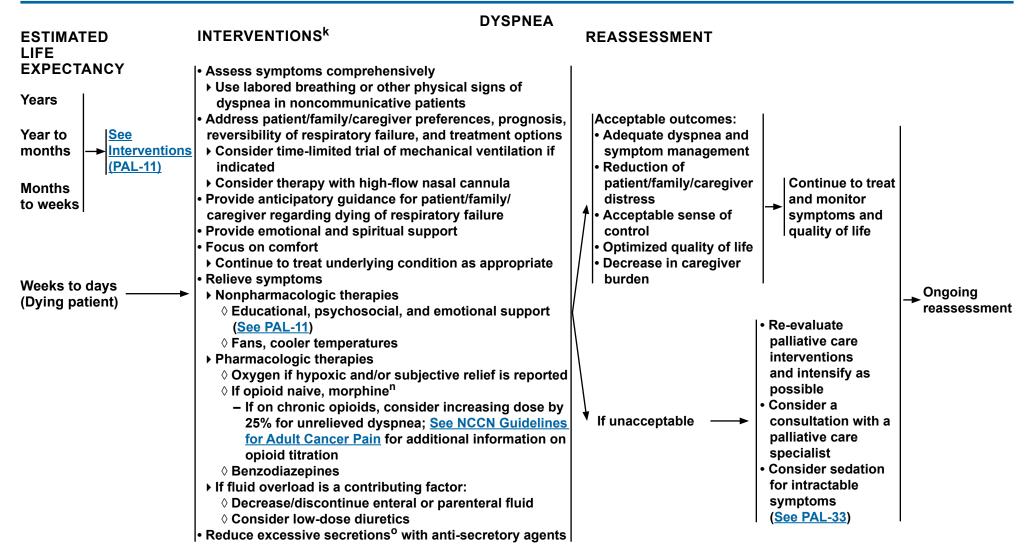


depression.

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kSee Drug Appendix (PAL-A) for specific recommendations for medical management of symptoms.

^oHughes A, et al. Audit of three antimuscarinic drugs for managing retained secretions. Palliat Med 2000;14:221-222.

Note: All recommendations are category 2A unless otherwise indicated.

ⁿFor acute progressive dyspnea or for patients who are not opioid naive, more aggressive titration may be required.



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ANOREXIA/CACHEXIA ESTIMATED ASSESSMENT AND INTERVENTIONS^k REASSESSMENT LIFE Evaluate rate/severity of weight loss and associated **EXPECTANCY** symptoms Educate patient/family/caregiver on patient's condition and Acceptable outcomes: risk/benefits of treatment options Weight stabilization or Screen for conditions/symptoms that interfere with intake gain Continue to Dysgeusia Improvement in treat and ▶ Xerostomia symptoms that interfere monitor ▶ Dental and/or jaw issues with intake symptoms and ▶ Intractable hiccups Improved energy quality of life **▶** Mucositis Resolution of ▶ Oral-pharyngeal candidiasis metabolic or endocrine Years ▶ Depression abnormalities ► Early satiety (if gastroparesis: try metoclopramide) ▶ NV (See PAL-15) Ongoing ▶ Dyspnea (See PAL-11) reassessment **▶** Constipation (See PAL-17) ▶ Pain (See NCCN Guidelines for Adult Cancer Pain) Year ▶ Fatigue to ▶ Pancreatic exocrine enzyme insufficiency Re-evaluate palliative months ▶ Eating disorders/distorted body image care interventions and Review/modify medications that interfere with intake intensify as possible Evaluate for endocrine abnormalities: Provide dietary If unacceptable ▶ Hypogonadism consultation **▶** Thyroid dysfunction Consider appetite Months to ▶ Metabolic abnormalities (eg, increased calcium) stimulant weeks Assess social and economic factors Consider registered dietitian consult Consider swallowing evaluation Consider psychiatric consultation if patient has an eating disorder Weeks to Consider nutrition support, enteral and parenteral feeding (as days appropriate) (Dying **See Interventions (PAL-14)** patient)

k<u>See Drug Appendix (PAL-A)</u> for specific recommendations for medical management of symptoms.

Note: All recommendations are category 2A unless otherwise indicated.



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ANOREXIA/CACHEXIA **INTERVENTIONS**^k **ESTIMATED** REASSESSMENT LIFE **EXPECTANCY** Acceptable outcomes: Adequate anorexia/ Years cachexia symptom **See Interventions (PAL-13)** management Year to Reduction of months patient/family/ Continue • Treat reversible causes of anorexia (See PAL-13) caregiver distress Assess anorexia/cachexia severity and associated to treat and Acceptable sense of monitor symptoms control • Educate patient/family/caregiver on patient's condition and symptoms Decreased caregiver risk/benefit of treatment options and quality burden Consider appetite stimulant of life Strengthened Focus on patient goals and preferences relationships Months Provide education and emotional support to patient/family/ Optimized quality of to weeks caregiver regarding natural history of disease, including life the following points: Personal growth and ▶ Absence of hunger and thirst is normal in the dying patient Ongoing enhanced meaning Nutritional support may not reverse weight loss in Weeks to patients with advanced cancer days There are risks associated with artificial nutrition and (Dying Re-evaluate hydration, including fluid overload, infection, and patient) palliative care hastened death interventions > Symptoms like dry mouth should be treated with local and intensify as measures (eg, mouth care, small amounts of liquids) possible **▶** Discontinuing previously initiated enteral or parenteral If unacceptable-Consult or refer nutrition near the end of life is appropriate, ethically to specialized permissible, and may improve some symptoms palliative care services or hospice

kSee Drug Appendix (PAL-A) for specific recommendations for medical management of symptoms.

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INTERVENTIONS^k

- Assess NV severity and associated symptoms
- Educate patient/family/caregivers on patient's condition and treatment options
- Screen for potentially reversible causes:
- ► Chemotherapy/radiation therapy-induced (See NCCN Guidelines for Antiemesis)
- ► Severe constipation/fecal impaction (See PAL-17)
- ▶ Gastroparesis
 - ♦ Prokinetic agent
- ▶ Bowel obstruction (See PAL-20)
- **▶** Central nervous system (CNS) involvement
 - **♦** Corticosteroids
 - ♦ Palliative radiation therapy
- ▶ Gastric outlet obstruction from intra-abdominal tumor or liver metastasis
 - ♦ Consider treatment with corticosteroids, a proton pump inhibitor, and metoclopramide
 - ♦ Endoscopic stenting
 - ♦ Decompressing gastrostomy tube (G-tube)
- ▶ Gastritis/gastroesophageal reflux disease (GERD)
 - ♦ Proton pump inhibitor
 - ♦ H2-blocker
- Treat dehydration, uremia, hypercalcemia
- ▶ Hydrate and optimize electrolytes

NAUSEA AND VOMITING

- Medication/substance-induced
- Review medication list, including non-prescribed supplements and herbs, and discontinue any unnecessary medications
- Review use of marijuana/cannabis for possible cannabis-associated hyperemesis syndrome and counsel regarding cessation if indicated.
- ➤ Check available blood levels of necessary medications (eg, digoxin, phenytoin, carbamazepine, tricyclic antidepressants)
- ► Treat medication-induced gastropathy (eg, proton pump inhibitor, prokinetic agent)
- Consider rotating and/or reducing opioid requirement with non-nauseating coanalgesics or procedural interventions
- Psychogenic
 - Consider psychiatric consultation if patient has an eating disorder, somatization, phobia, or panic disorder causing NV. See NCCN Guidelines for Distress Management
- Non-specific NV
- ► Initiate pharmacologic management with dopamine receptor antagonists or 5-HT3 receptor antagonists
- If anxiety contributes to NV, consider adding benzodiazepine
- If vertiginous component, consider anticholinergic/ antihistamine
- Consider non-pharmacologic therapies, such as acupuncture, hypnosis, and cognitive behavioral therapy

If NV stops:
See Reassessment
(PAL-16)

If NV persists:
See Interventions
(PAL-16)

kSee Drug Appendix (PAL-A) for specific recommendations for medical management of symptoms.

Note: All recommendations are category 2A unless otherwise indicated.



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PERSISTENT NAUSEA AND VOMITING

INTERVENTIONSk,p,q REASSESSMENT Acceptable outcomes: Adequate NV symptom management Reduction of Titrate dopamine antagonist to maximum benefit and Continue to treat patient/family/caregiver tolerance. and monitor distress For continued NV, consider additional drug classes symptoms and Acceptable sense of with potential antiemetic properties: See drug appendix quality of life control (PAL-A) Decreased caregiver **▶** Corticosteroid burden ▶ 5-HT3 antagonist Optimized quality of life ▶ Antipsychotic ▶ Anticholinergic **▶** Antihistamine ▶ Oral cannabinoid Ongoing **→** Antidepressant (mirtazapine) reassessment (See Interventions. **PAL-15**) Consider appropriate route of administration > Prescribe oral, sublingual, or rectal agent and titrate to Re-evaluate palliative maximum benefit; consider opioid rotation care interventions and If NV persists, provide PRN (as needed), scheduled, or intensify as possible continuous parenteral infusion as necessary Consult or refer to ▶ Consider subcutaneous administration as an alternative If unacceptable specialized palliative care services or hospice Consider palliative

Note: All recommendations are category 2A unless otherwise indicated.

Clinical Trials: NCCN believes that the best management of any patient with cancer is in a clinical trial. Participation in clinical trials is especially encouraged.

sedation (See PAL-33)

kSee Drug Appendix (PAL-A) for specific recommendations for medical management of symptoms.

PAn around-the-clock dosing schedule may provide the most consistent benefit to the patient.

^qContinuous intravenous or subcutaneous infusions of different antiemetics may be necessary for the management of intractable NV.



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Preventive measures^k

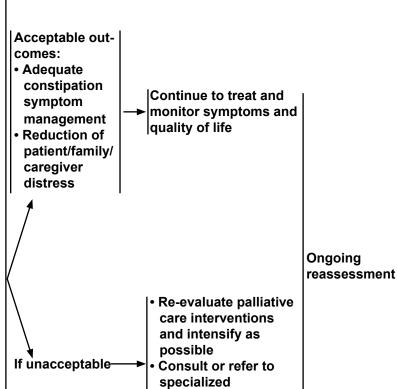
- Increase fluids
- Increase dietary fiber if patient has adequate fluid intake and physical activity
- Exercise, if appropriate
- Administer prophylactic medications
- Stimulant laxative ± osmotic laxative
- Increase laxative dose with goal of 1 non-forced bowel movement (BM) every 1–2 days

INTERVENTIONS^k CONSTIPATION^{1,2}

If constipation is present:

- Educate patient/family/caregivers on patient's condition and treatment options
- Assess for cause and severity of constipation
- ▶ Discontinue any non-essential constipating medication
- Rule out impaction, especially if diarrhea accompanies constipation (overflow around impaction)
- Rule out obstruction (physical exam, abdominal x-ray/ consider GI consult)
- Treat other causes (eg, hypercalcemia, hypokalemia, hypothyroidism, diabetes mellitus, medications)
- Add and titrate stimulant and/or osmotic laxative If impacted:
- Administer glycerine suppository ± mineral oil retention enema^r
- Perform manual disimpaction following pre-medication with analgesic ± anxiolytic
 If constipation persists:
- ii constipation persists.
- Reassess for cause and severity of constipation
- Recheck for impaction or obstruction
- Consider adding other laxatives
- Consider peripherally acting mu-opioid receptor antagonist (PAMORA) for opioid-induced constipation
- When two medications scheduled from different laxative classes have been ineffective
- Avoid if concern for post-op ileus and/or mechanical bowel obstruction
- Administer tap water enema until clear
- Consider use of a prokinetic agent

REASSESSMENT



palliative care

services or hospice

kSee Drug Appendix (PAL-A) for specific recommendations for medical management of symptoms.

^rUse suppository and enema with caution in patients receiving chemotherapy due to risk of cytopenia.

¹Wickham RJ. J Adv Pract Oncol 2017;8(2):149-161.

²Larkin PJ, et al. Ann Oncol 2018; 29 (Suppl 4):iv111-iv125.

Note: All recommendations are category 2A unless otherwise indicated.



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DIARRHEA

INTERVENTIONS/FURTHER ASSESSMENT

SCREENING AND ASSESSMENT

- Evaluate diarrhea severity and cause
- Educate patient/family/caregiver on condition and treatment options

SEVERITY Determine Diarrhea Grade^s

- Grade 1: Increase of <4 stools/day over baseline; mild increase in ostomy output
- Grade 2: Increase of 4–6 stools/day over baseline; moderate increase in ostomy output
- Grade 3: Increase of >7 stools/day over baseline; incontinence; hospitalization indicated; severe increase in ostomy output; limiting self-care; interferes with activities of daily living (ADLs)
- <u>Grade 4</u>: Life-threatening consequences; urgent intervention indicated

- Provide immediate antidiarrheal therapy indicated by grade
- If chemotherapy induced, decrease or delay the next dose of chemotherapy
- Tailor treatment to potential causes
- Irritable bowel syndrome (IBS)/Crohn's disease
- ▶ Post-surgical/anatomic changes (ie, short bowel syndrome)
- ▶ Recent antibiotic use
- **▶** Chemotherapy regimen
- Radiation-induced enteritis or other RT side effects
- ▶ Drugs that frequently induce diarrhea
- ▶ Graft-versus-host disease (GVHD) and/or immunotherapy-related colitis
- ▶ Pancreatic insufficiency in pancreatic cancer
- ▶ Dietary changes
- ▶ Infection
 - Screen for clostridium difficile (C. diff), human immunodeficiency virus (HIV), and other comorbid infections (ie, ova/parasites)
- If fecal impaction is suspected, See PAL-17

See Anti-Diarrheal Interventions, Grades 1–4 (PAL-19)

*NCI Table 3: http://www.cancer.gov/cancertopics/pdq/supportivecare/gastrointestinalcomplications/HealthProfessional/page5#section_5.8

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ANTIDIARRHEAL INTERVENTIONS

INTERVENTION^k SCREENING Provide immediate antidiarrheal therapy indicated by grade - If chemotherapy induced, decrease or delay the next dose of chemotherapy → Provide oral hydration and electrolyte replacement GRADE 1-• Initiate antidiarrheal (eg. diphenoxylate/atropine) Provide IV fluids if patient is unable to tolerate oral fluids Initiate/continue antidiarrheal—as above Consider anticholinergic agents • If non-C.diff infection-related: Treat with appropriate antibiotics • If C. diff infection-related: Administer antibiotics and probiotics as appropriate If chemotherapy-induced, decrease or delay the next dose of chemotherapy **GRADE 2-**• If immunotherapy-mediated diarrhea, consider **▶** Corticosteroids ▶ Infliximab **▶** Probiotics ▶ See Management of Immunotherapy-Related Toxicity Guidelines for immunotherapy-related diarrhea • Inpatient hospitalization (intensive care for Grade 4 if consistent with goals) • For GVHD diarrhea, consider limiting diet, steroids, and IV nutrition → rovide IV fluids and use antidiarrheal agents and anticholinergics as mentioned above GRADES 3/4 - Consider somatostatin analog Consider parenteral hydration in home setting

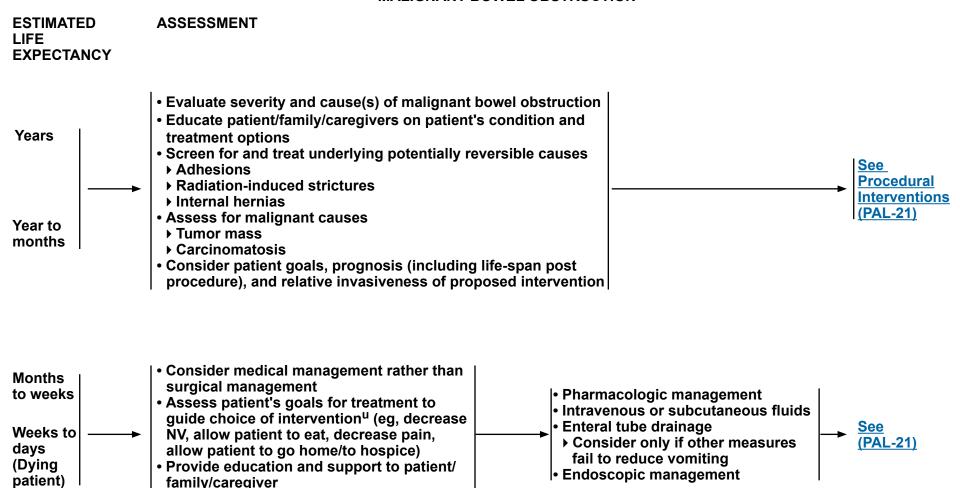
kSee Drug Appendix (PAL-A) for specific recommendations for medical management of symptoms.

Note: All recommendations are category 2A unless otherwise indicated.



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MALIGNANT BOWEL OBSTRUCTION^t



^tPlain film radiography may be helpful in confirming the clinical diagnosis of bowel obstruction. Consider a CT scan if surgical intervention is contemplated, as it is more sensitive and may help identify the cause of obstruction.

^uMost malignant bowel obstructions are partial, allowing time to discuss appropriate intervention with the patient/family/caregiver.

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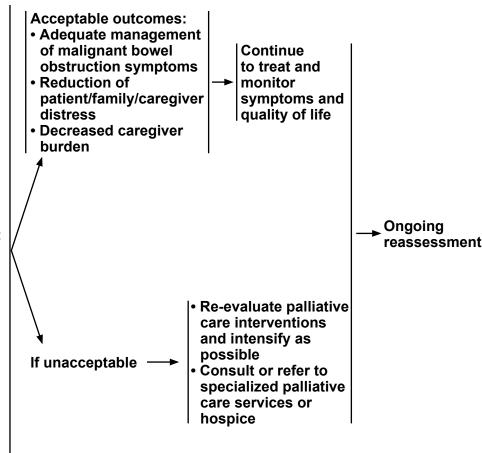
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MALIGNANT BOWEL OBSTRUCTION

PROCEDURAL INTERVENTIONS^k

- Operative management
- ▶ Discuss treatment options with patient/family/caregiver
 - ♦ Risk of mortality, morbidity, and re-obstruction
 - **♦ Overall prognosis**
 - ♦ Invasiveness of the proposed intervention
- Risk factors for poor surgical outcome include ascites, carcinomatosis, palpable intra-abdominal masses, multiple bowel obstructions, previous abdominal radiation, very advanced disease, and poor overall clinical status
- Endoscopic management
- ▶ Percutaneous endoscopic gastrostomy tube for drainage
- **▶** Endoscopic stent placement
- Interventional radiology management
- ▶ Gastrostomy tube for drainage
- Pharmacologic management when the goal is maintaining gut function:
- ▶ Use rectal, transdermal, subcutaneous, or intravenous routes of administration
- ▶ Opioids
- ▶ Antiemetics: Do not use antiemetics that increase gastrointestinal motility such as metoclopramide; however, these may be beneficial in incomplete bowel obstruction
- **▶** Corticosteroids
- Pharmacologic management when gut function cannot be maintained:
- ▶ Administer antisecretory agents
- ▶ Intravenous or subcutaneous fluids
- Nasogastric or gastric tube drainage
- Increased risk of aspiration
- ▶ Consider a limited trial only if other measures fail to reduce vomiting
- Total parenteral nutrition (TPN)
- ► Consider only if there is expected improvement of quality of life and life expectancy of months to years

REASSESSMENT



kSee Drug Appendix (PAL-A) for specific recommendations for medical management of symptoms.

Note: All recommendations are category 2A unless otherwise indicated.



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SLEEP/WAKE DISTURBANCES INCLUDING INSOMNIA AND SEDATION

ASSESSMENT AND INTERVENTIONS^k REASSESSMENT **ESTIMATED** LIFE **EXPECTANCY** Educate patient/family/caregivers on patient's condition and treatment options Evaluate type/severity of sleep-wake disturbance, including Acceptable outcomes: daytime impairments (eg. Epworth Sleepiness Scale) Adequate Continue Explore fears and anxiety regarding death/disease to treat and management of • Provide sleep-hygiene education symptoms monitor Provide cognitive-behavioral treatment Years Reduction of symptoms and • eg, stimulus control, progressive muscle relaxation quality of life patient/family/ Assess for and treat contributing factors: See NCCN caregiver distress ▶ Pain, depression, anxiety, delirium, and nausea Guidelines ▶ Medication side effects or withdrawal syndromes for (eg, corticosteroids, opioids, anticonvulsants, caffeine, Survivorship hormones, herbals, barbiturates, benzodiazepines, alcohol, tricvclic antidepressants) Ongoing > Primary sleep disorders such as obstructive sleep apnea, reassessment Year to Re-evaluate restless legs syndrome, and periodic limb movement contributing etiologies months disorder • Change insomnia or ♦ Continuous positive airway pressure (CPAP)/Bilevel antisedation therapy positive airway pressure (BiPAP) Re-evaluate palliative • Provide pharmacologic therapies for refractory sleep/wake Months If unacceptable → care interventions and disturbance to weeks intensify as possible ▶ Insomnia: Consult or refer to ♦ Antipsychotics ♦ Alpha adrenergic specialized palliative **♦** Sedative/hypnotics blockers care services or **♦** Benzodiazepines **♦ Melatonin-receptor** hospice **♦** Antidepressants agonists ▶ Daytime sedation: **♦ CNS** stimulant/wakefulness-promoting agents Weeks to days · Assess patient's desire to have insomnia and sedation treated (Dying Adjust doses of pharmacologic therapies patient)

kSee Drug Appendix (PAL-A) for specific recommendations for medical management of symptoms.

Note: All recommendations are category 2A unless otherwise indicated.



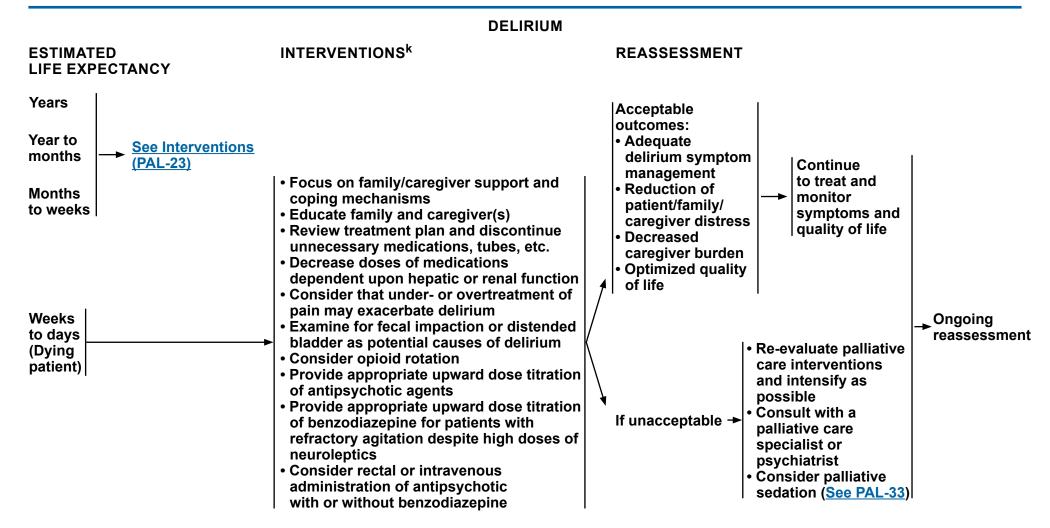
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DELIRIUM ESTIMATED INTERVENTIONS^k LIFE EXPECTANCY REASSESSMENT Reduce or eliminate delirium- Evaluate delirium severity and inducing medications as cause (eg, DSM criteria)³ **Acceptable** possible (eg, steroids, See also NCCN Guidelines for outcomes: anticholinergics, **Distress Management** Adequate Continue benzodiazepines) delirium symptom ▶ Hyperactive to treat and Administer haloperidol ▶ Hypoactive management monitor Administer alternative Reduction of Educate patient/family/ symptoms antipsychotic medications caregivers on patient's Severe patient/family/ and quality of If agitation is refractory to delirium life condition and treatment options caregiver distress high doses of neuroleptics, (agitation) Decreased Screen for and treat underlying consider adding reversible causes caregiver burden benzodiazepine ▶ Metabolic causes **Years** Titrate starting dose to ▶ Dehydration optimal effect with lowest ▶ Unrelieved pain possible dose Year to ▶ Hypoxia Consider opioid dose Ongoing months **▶** Bowel obstruction/obstipation reduction or rotation reassessment **▶** Infection Support caregivers ▶ Brain metastases (consider **Months** palliative RT) or other CNS to weeks Re-evaluate events Reduce or eliminate deliriumpalliative care **▶** Bladder outlet obstruction inducing medications as interventions **▶** Medication or substance possible (eg, steroids, and intensify as effect or withdrawal (eg, anticholinergics, possible benzodiazepines, opioids, If unacceptable benzodiazepines) Consider anticholinergics, non-Mild/ Administer haloperidol consultation prescribed substances) lmoderate l → Administer alternative with a palliative Assess, screen for, and delirium antipsychotic medications care specialist or maximize nonpharmacologic Titrate starting dose to psychiatrist interventions (eg, reorientation, optimal effect with lowest cognitive stimulation, sleep possible dose kSee Drug Appendix (PAL-A) for specific recommendations for hygiene) Orient patient with family/ Weeks medical management of symptoms. caregiver(s) presence to days ³American Psychiatric Association. Diagnostic and statistical **►**See Interventions (PAL-24) Support caregivers (Dying manual of mental disorders (ed 5). Arlington, VA: American patient) Psychiatric Publishing; 2013.

Note: All recommendations are category 2A unless otherwise indicated.



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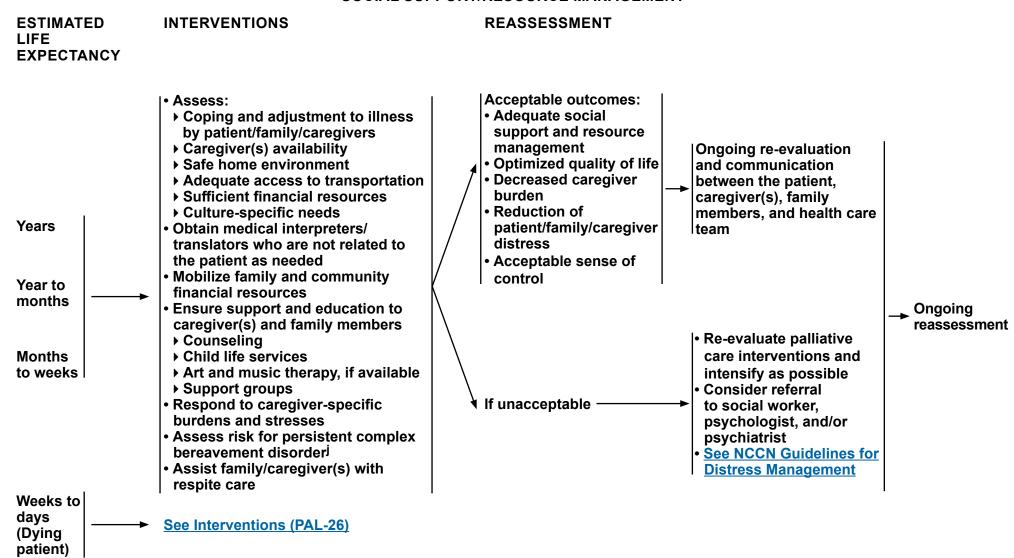
kSee Drug Appendix (PAL-A) for specific recommendations for medical management of symptoms.

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SOCIAL SUPPORT/RESOURCE MANAGEMENT



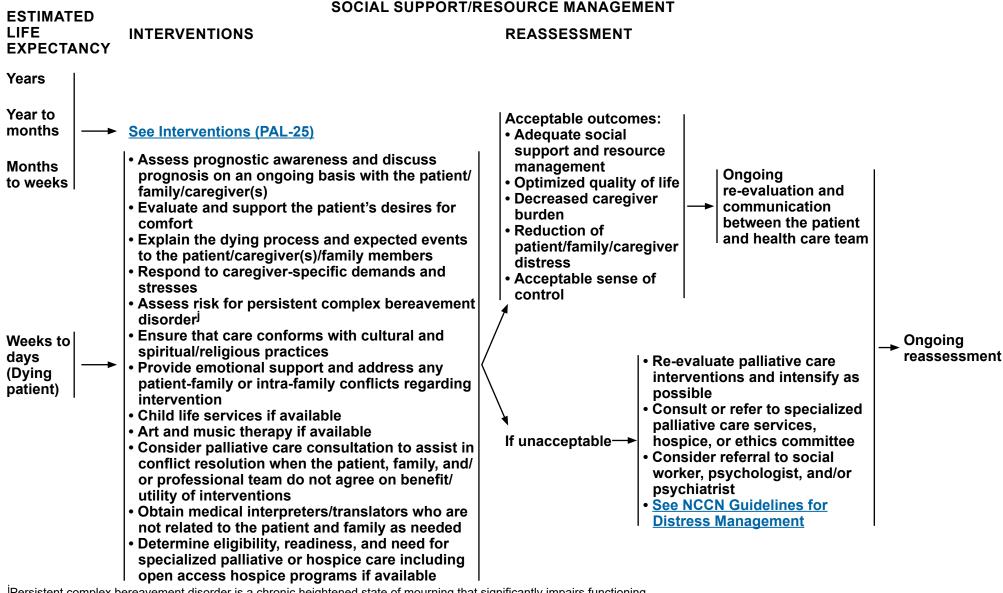
Persistent complex bereavement disorder is a chronic heightened state of mourning that significantly impairs functioning.

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Persistent complex bereavement disorder is a chronic heightened state of mourning that significantly impairs functioning.

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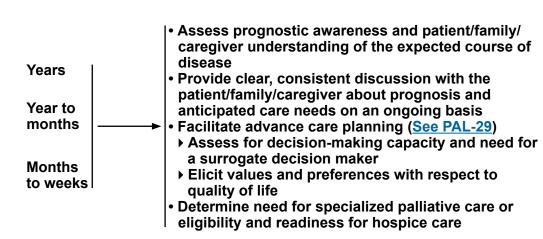
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PREPARING PATIENTS/FAMILIES/CAREGIVERS FOR END-OF-LIFE AND TRANSITION TO HOSPICE CARE

ESTIMATED LIFE EXPECTANCY

ASSESSMENT/INTERVENTIONS

REASSESSMENT



Acceptable outcomes:

- Reduction of patient/family/caregiver distress
- Acceptable sense of control
- Decreased caregiver burden
- Strengthened relationships
- Optimized quality of life
- Personal growth and enhanced meaning

If unacceptable:

 Re-evaluate palliative care interventions and intensify as possible

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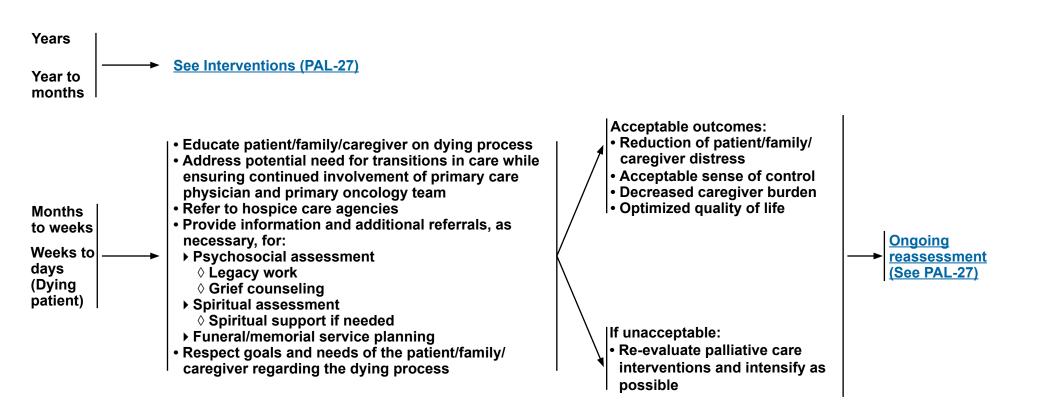
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PREPARING PATIENTS/FAMILIES/CAREGIVERS FOR END-OF-LIFE AND TRANSITION TO HOSPICE CARE

ESTIMATED LIFE EXPECTANCY

ASSESSMENT/INTERVENTIONS

REASSESSMENT



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REASSESSMENT **ESTIMATED** INTERVENTIONS LIFE **EXPECTANCY** Assess decision-making capacity and identify surrogate decision maker if necessary Acceptable outcomes: Ask patient if he/she has completed any advance Adequate advance care care planning documents (for example, a living will, planning Ongoing re-evaluation medical power of attorney, health care proxy, or Reduction of patient/family/ and communication patient surrogate for health care caregiver distress between the patient If not, encourage patient to prepare one and health care team Acceptable sense of control ▶ Refer to social worker if available Decreased caregiver burden • Explore hopes, worries, and fears about the future Optimized quality of life and provide emotional support **Years** Initiate discussion of personal values and care preferences Explore patient reluctance to Make recommendation about future care if patient engage in advance care values and goals lead to a clear recommendation Year to planning Ongoing regarding future treatment **Explore fears and worries** months reassessment Document patient values and preferences and about illness any decisions in accessible site in medical record Refer to specialized (including MOLST/POLST^v if completed) palliative care service if the Encourage the patients to discuss wishes with family/ patient is having difficulty proxv If unacceptable engaging in discussion of · Initiate discussion of palliative care options, including advance care planning hospice if appropriate Consider referral to a mental Introduce palliative care team if appropriate health clinician to evaluate Refer to state and institutional guidelines for mental health issues Months to additional guidance Consider referral to spiritual weeks care counselor See NCCN Guidelines for Weeks to **Distress Management See Interventions (PAL-30)** days

ADVANCE CARE PLANNING

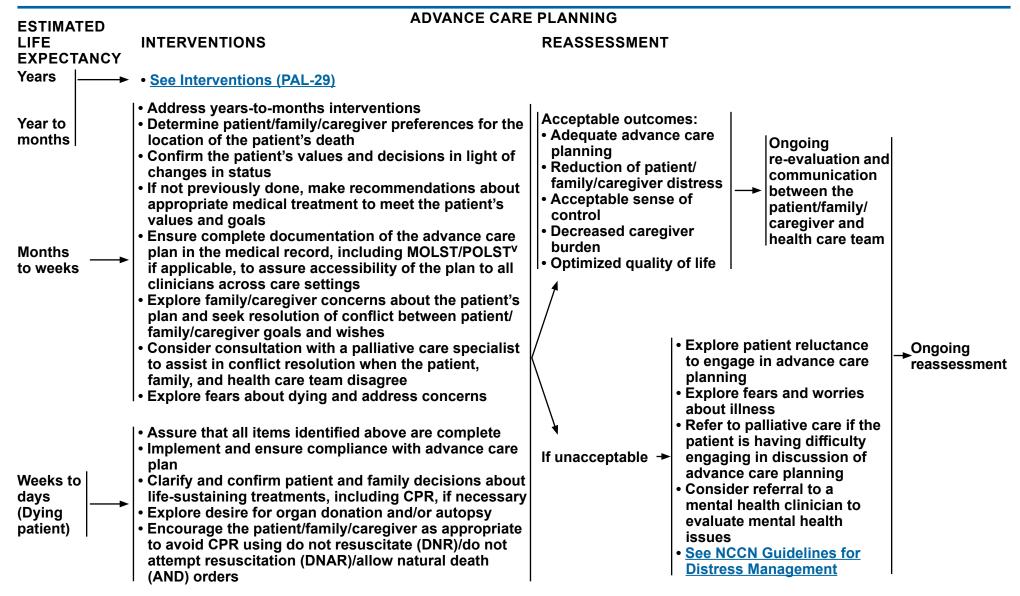
^vPatient's values and preferences and any decisions should be documented in the medical record, including MOLST/POLST (Medical Orders for Life-Sustaining Treatment or Physician Orders for Life-Sustaining Treatment).

Note: All recommendations are category 2A unless otherwise indicated.

(Dying patient)



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^vPatient's values and preferences and any decisions should be documented in the medical record, including MOLST/POLST.

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RESPONSE TO REQUESTS FOR HASTENED DEATH OR MEDICAL AID IN DYING (MAID)⁴

- We believe that a request for hastened death often has important meanings that require exploration. The most appropriate initial response to a request for hastened death is to intensify palliative care. Patients making such a request should be referred to a palliative care specialist. However, evaluating a patient's request for hastened death is an important skill, even for clinicians who feel this practice is never morally acceptable. Clarifying these meanings may enlarge the range of useful therapeutic options and might reduce the patient's wish to die.
- Explore the reasons for the request for a hastened death, and find out "why now" in a joint discussion with the patient, family, and caregivers.
- ▶ Reassess symptom management.
- ▶ Reassess psychological/psychiatric issues, especially depression, anxiety, grief, psychosis, delirium, and dementia.
- Ask about the patient's relationship to family or other important people.
- ▶ Ask about individual values, purpose and meaning, and personal views of spiritual/existential suffering and consider spiritual care consultation for further exploration and intervention.
- > Assess for fears of caregiver burden and abandonment and re-emphasize physician commitment to the patient.
- Address the request explicitly. If a patient uses a euphemism for death or refers to it indirectly, ask for clarification. Do not assume that a wish for death to come soon is a wish for a lethal prescription.
- Distinguish wishing not to live in the patient's current state from wishing for a hastened death.
- Request a consult with a mental health professional to evaluate and treat reversible causes of psychological suffering.
- Offer information about the natural history of the disease and explain the process of dying.
- Discuss the differences between withdrawal of life-sustaining nutrition/hydration, voluntary cessation of eating or drinking, and/or sedation for refractory symptoms.
- Address the role of medical caregivers, including hospice if appropriate.
- Know the local legal status of MAID. Some patients and clinicians may be confused about legal/ethical distinctions; treatment withdrawal and aggressive treatments for symptoms, such as pain, are not requests for hastened death. MAID is legal in 7 United States jurisdictions; euthanasia is not legal anywhere in the United States.
- Examine your own response as a clinician to a particular patient's request. Requests for hastened death can force clinicians to confront their own personal, professional, moral, and legal responsibilities. Dealing with an individual patient can be quite different from thinking about the issue in abstract circumstances. Consider a consultation with an ethics committee, specialized palliative care service, or experienced colleague. These cases are usually complex and often benefit from consideration of multiple perspectives.
- Clarify the care plan. Requests for hastened death should prompt ongoing discussion and active attempts to ameliorate physical, psychosocial, and spiritual distress. Re-emphasize your own commitment to providing continuing care for the patient. Re-evaluate and maintain medications for symptom management.

Note: All recommendations are category 2A unless otherwise indicated.

⁴Spence RA, Blanke CD, Keating TJ, Taylor LP. Responding to patient requests for hastened death: physician aid in dying and the clinical oncologist. J Oncol Pract 2017;13(10):693-699.



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CARE OF THE IMMINENTLY DYING HOSPITALIZED PATIENT

For an imminently dying patient, consider using an end-of-life care order set, which may contain physical, psychosocial, and practical interventions, including the following:

- Physical
- ▶ Obtain hospice evaluation, if available
- ▶ Intensify comfort measures
 - ♦ Implement skin safety protocol according to risk assessment:
 - Regularly reposition the patient for comfort as indicated
 - Reassess and premedicate for wound care as needed
 - Use a pressure-relieving mattress, if available
 - Provide eye and mouth care to maintain moisture
 - Treat for urinary retention and fecal impaction
- ▶ Ensure deactivation of implanted defibrillator
- ▶ Consider deactivation of implanted pacemaker in select patients
- ▶ Discontinue unnecessary diagnostic tests and interventions such as transfusions, needle sticks, blood glucose monitoring, oxygen saturation monitoring, and suctioning
- ▶ Replace check of vital signs with regular (eg, every 4 h) symptom assessments
- ▶ Switch routes of medication administration when the oral route is no longer feasible
- ▶ Adjust doses of medications to optimal comfort
 - ◊ IV bolus dosing combined with drip titration may be the most rapid and effective means of symptom management; drip titration alone is much slower
- ▶ Treat unclearable terminal secretions (death rattle):
 - ♦ Reduce parenteral and enteral fluids
 - **♦** Reposition the patient
 - ♦ Avoid deep suctioning
- ▶ Treat dyspnea by adjusting the dose of medication (See PAL-11)
- ► Treat delirium (See PAL-24) See NCCN Guidelines for Distress Management
- ► Consider palliative sedation for refractory restlessness and agitation (See PAL-33)
- ▶ Be prepared to discuss a request for organ donation and autopsy

- Psychosocial
- Help support the patient/family/caregiver to accept discontinuation of TPN and transfusions, dialysis, IV hydration, and medications that will not add to the patient's comfort
- ▶ Consider social work and chaplain consults
- ▶ Ensure that the family/caregiver understands the signs and symptoms of imminent death and that they are supported throughout the dying process
- ▶ Offer anticipatory bereavement support
- ▶ Provide support to children and grandchildren and provide education to parents on age-appropriate grieving process
- ▶ Encourage visits by children if consistent with family values
- Support cultural practices
- ► Ensure that caregivers understand and will honor advance directives
- ▶ Promote healthy grieving
- Practical
- ▶ Mobilize in-hospital end-of-life care policies and procedures
- ► Ensure that the patient's advance directives are documented and implemented
- Discuss and document patient/family/caregiver wishes for resuscitation. CPR is unlikely to be effective; recommend other options such as DNR/DNAR/AND orders and promote comfort care.
- ▶ Provide the patient/family/caregiver with respectful space and uninterrupted time together
- ▶ Facilitate virtual family visits, if in-person visits are restricted or not possible
- ▶ Provide information on funeral planning, if desired

See After-Death Interventions (PAL-34)

Note: All recommendations are category 2A unless otherwise indicated.

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PALLIATIVE SEDATION

- Palliative sedation to unconsciousness, in which the intended effect is deep sedation, remains controversial.⁵
- Refer to institutional guidelines/policy for additional guidance.
- Refractory symptoms are symptoms that cannot be adequately managed despite comprehensive, interprofessional palliative care that does not compromise consciousness.
- Confirm that the patient has refractory symptoms and is imminently dying.
- Imminently dying patients have a prognosis of hours to days. If palliative sedation is being considered, prognosis should be confirmed by two physicians.
- Obtain informed consent for sedation from the patient and/or surrogate/family.
- Discuss the patient's disease status, treatment goals, prognosis, and expected outcomes with the patient and/or surrogate.
- ▶ Clarify that sedation will consist of the continuous administration of medications that will render the patient unconscious.
- ▶ Review the ethical justification of the use of sedation with the patient/surrogate/family and members of the health care team.
 - ♦ An ethics consult may be considered in accordance with institutional guidelines and state regulations.
- ▶ Discontinuation of life-prolonging therapies (eg, artificial hydration/nutrition and/or withholding of cardiopulmonary resuscitation) often accompanies palliative sedation.
- Support reassignment of health care professionals who cannot provide sedation due to personal or professional values and beliefs as long as patient care can be safely transferred to the care of another health care professional.
- Select an appropriate sedative treatment plan based on the patient's response to recent and current medications.^k
 Typical sedatives used for palliative sedation parenteral infusions include:
 - → Midazolam or lorazepam
 - ▶ Propofol
- Continue current pain and symptom management interventions and titrate as needed.
- Monitor patient symptoms regularly, titrate sedatives and other medications, and reassess the need for ongoing palliative sedation based on response and drug/drug interactions to establish and maintain a level of sedation that relieves the patient's refractory symptoms.
- Provide ongoing psychosocial and spiritual support for the patient's surrogate, family, and health care professionals.

kSee Drug Appendix (PAL-A) for specific recommendations for medical management of symptoms.

⁵Ten Have H, Welie JV. Palliative sedation versus euthanasia: an ethical assessment. J Pain Symptom Manage 2014;47(1):123-136. https://www.ncbi.nlm.nih.gov/pubmed/23742736.

Note: All recommendations are category 2A unless otherwise indicated.



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DEATH

Death -

ASSESSMENT

A "peaceful death":

suffering for the

In general accord

with the patient's

ethical standards

Consistent with

and family's wishes

clinical, cultural, and

distress and

caregiver(s)

• Free from avoidable

patient, family, and

AFTER-DEATH INTERVENTIONS

For family and caregiver(s)

- Immediate after-death care:
- Inform family (if not present) of death
- ▶ Offer condolences
- ▶ Provide the family time with the body
- Involve chaplain to assess family's desire for religious ritual or spiritual support
- > Remove tubes, drains, lines, and the foley catheter unless an autopsy is planned
- ▶ Ensure culturally sensitive, respectful treatment of the body
- ▶ Address survivor concerns about organ donation and/or autopsy
- ▶ File the death certificate, complete forms, and provide necessary information for the funeral director and family as appropriate
- Inform other involved health care professionals of the patient's death
- Bereavement support:
- Formally express condolences on the patient's death (eg, card, call, letter)
- > Refer to appropriate bereavement services within the institution or in the community
- ▶ Attend a debriefing meeting with the family if they desire one
- Identify family members at risk for persistent complex bereavement disorder <u>For health care professionals</u>
- General support:
- ▶ Legitimize discussion of personal issues that impact patient care
- ▶ Create a climate of safety for discussion of patient deaths
- ▶ Provide regular opportunities for reflection and remembering for staff through a memorial ritual
- After-death support:
- ▶ Review medical issues related to the patient's death
 - ♦ Explore concerns and questions regarding quality of patient care
- ▶ Review the family's emotional responses to the patient's death
- ▶ Review the staff's emotional responses to the patient's death
 - ♦ Identify health care professionals at risk for persistent complex bereavement disorder, moral distress, or compassion fatigue
 - ♦ Include nurses, nursing assistants, physician team members (including medical students, residents, and fellows), social workers, and chaplaincy, as appropriate
 - ♦ Consider a bereavement ritual for staff (eg, brief reading, moment of quiet)

^jPersistent complex bereavement disorder is a chronic heightened state of mourning that significantly impairs functioning.

Note: All recommendations are category 2A unless otherwise indicated.



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Condition	Recommended Agents and Dosage by Estimated Life Expectancy and Symptom Etiology
Dyspnea (PAL-11)	Life Expectancy: Years; Year to Months; and Months to Weeks • General: Morphine, 2.5–10 mg PO q2h PRN or 1–3 mg IV q2h PRN for opioid naïve, increase dose by 25% for opioid tolerant • For acute progressive dyspnea, or for patients who are not opioid naïve, more aggressive titration may be required • Anxiety: Lorazepam, 0.25–1 mg PO q4h PRN for benzodiazepine naïve
Dyspnea (PAL-12)	Life Expectancy: Weeks to Days (dying patient) • General: Morphine, 2.5–10 mg PO q2h PRN or 1–3 mg IV q2h PRN if opioid naïve, increase dose by 25% for opioid tolerant ▶ For acute progressive dyspnea, or for patients who are not opioid naïve, more aggressive titration may be required • Anxiety: Lorazepam, 0.25–1 mg PO q4h PRN if benzodiazepine naïve • Fluid overload: Furosemide
Secretions (PAL-12)	• Excessive secretions: Scopolamine, 0.4 mg SC q4h PRN/1.5 mg patches, 1–3 patches q72h OR atropine, 1% ophthalmic solution 1–2 drops SL q4h PRN OR glycopyrrolate, 0.2–0.4 mg IV or SC q4h PRN
Anorexia/ Cachexia ¹ (<u>PAL-13</u>)	Life Expectancy: Years; Year to Months • Depression/anorexia: Mirtazapine, 7.5–30 mg PO QHS • Gastroparesis (early satiety): Metoclopramide 5–10 mg PO QID 30 min before meals and at bedtime • Low/no appetite: Megestrol acetate, 200–600 mg/d PO OR olanzapine, 5 mg/d PO
Anorexia/ Cachexia ¹ (<u>PAL-14</u>)	Life Expectancy: Months to Weeks; Weeks to Days (dying patient) • Low/no appetite: Megestrol acetate, 400–800 mg/d d PO OR olanzapine, 5 mg/d PO OR dexamethasone, 3–4 mg/d PO OR consider cannabinoid • Depression: Mirtazapine, 7.5–30 mg PO QHS

See key for abbreviations PAL-A (5 of 5)

Note: All recommendations are category 2A unless otherwise indicated.

Clinical Trials: NCCN believes that the best management of any patient with cancer is in a clinical trial. Participation in clinical trials is especially encouraged.

Continued

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¹Roeland EJ, Bohlke K, Baracos VE, et al. Management of Cancer Cachexia; ASCO Guideline. J Clin Oncol 2020,38(21):2438-2453.



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Condition	Recommended Agents and Dosage by Estimated Life Expectancy and Symptom Etiology
Nausea and Vomiting (NV)- Initial Treatment (PAL-15)	Life Expectancy: Years; Year to Months; Months to Weeks; and Weeks to Days (dying patient) • See NCCN Guidelines for Antiemesis for chemotherapy/radiation-induced NV • Gastroparesis: Metoclopramide, 5–10 mg PO QID 30 min before meals and at bedtime • CNS involvement: Dexamethasone, 4–8 mg PO BID-TID • Gastric outlet obstructions: Dexamethasone, 4–8 mg/d PO; proton pump inhibitor; metoclopramide, 5–10 mg PO QID 30 min before meals and at bedtime • Gastritis/GERD: Proton pump inhibitor OR H2 blocker • Medication-induced gastropathy: Proton pump inhibitor OR metoclopramide, 5–10 mg PO QID 30 min before meals and at bedtime Nonspecific NV • Dopamine receptor antagonists or 5-HT3 receptor antagonists • Haloperidol, 0.5 mg PO TID OR metoclopramide, 5–10 mg PO QID 30 min before meals and at bedtime OR prochlorperazine, 5–10 mg PO 3–4 times/d, maximum 40 mg/d OR olanzapine, 5–10 mg PO 2–3 times/d OR ondansetron, 4 mg PO q4h or 8 mg PO q8h • Contributing anxiety: Lorazepam, 0.5–1 mg PO q4h PRN • Vertiginous component: Anticholinergic AND/OR antihistamine
Nausea and Vomiting (NV)- Initial Treatment (PAL-16)	Life Expectancy: Years; Year to Months; Months to Weeks; and Weeks to Days (dying patient) Consider appropriate route of administration 1) Prescribe oral, sublingual, or rectal agent and titrate to maximum benefit 2) If NV persists, provide PRN, scheduled, or continuous parenteral infusion as necessary 3) Consider subcutaneous administration as an alternative Titrate to maximum benefit and tolerance: olanzapine, prochlorperazine, haloperidol, or metoclopramide For continued NV, consider additional agents: Dexamethasone, 4–8 mg/d PO; ondansetron, 4–8 mg PO every 6 h; scopolamine (patch or IV); meclizine, 25–100 mg/d PO; oral cannabinoid
Constipation (PAL 17)	Life Expectancy: Years; Year to Months; Months to Weeks; and Weeks to Days (dying patient) • Prophylaxis: Titrate the senna and add polyethylene glycol, recommend starting with polyethylene glycol if the patient is not on opioids and can tolerate the volume of liquid • General: Add bisacodyl, titrate to 10–15 mg PO daily-TID with a goal of 1 non-forced bowel movement (BM) every 1–2 days • Persistent constipation: bisacodyl suppository, one rectally daily-BID; polyethylene glycol, 1 capful/8 oz water PO BID; lactulose, 30 mL PO BID-QID OR 60 mL daily; sorbitol, 30 mL PO q2h x 3, then PRN; magnesium hydroxide, 30–60 mL PO daily-BID; or magnesium citrate, 8 oz PO daily • Opioid-induced constipation: Consider methylnaltrexone, 8 or 12 mg/dose SC, no more than once a day; linaclotide, 72–145 mcg/d PO; naloxegol, 12.5–25 mg/d PO • Not for post-op ileus and mechanical bowel obstruction

See key for abbreviations PAL-A (5 of 5)

Note: All recommendations are category 2A unless otherwise indicated.

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Condition	Recommended Agents and Dosage by Estimated Life Expectancy and Symptom Etiology
Diarrhea (<u>PAL-19</u>)	Life Expectancy: Years; Year to Months; and Months to Weeks <u>Grade 1</u>
	 General: Loperamide, 4 mg PO x 1 then 2 mg PO after each loose stool, up to 16 mg/d Consider addition of bulk-forming agents with caution in patients on opioids
	• If not on opioids: Diphenoxylate/atropine 1–2 tabs PO q6h PRN, maximum 8 tabs/d <u>Grade 2</u>
	• Initiate/continue loperamide, 4 mg PO x 1 then 2 mg PO after each loose stool, up to 16 mg/d • If not on opioids: Diphenoxylate/atropine 1–2 tabs PO g6h PRN, maximum 8 tabs/d
	 Consider hyoscyamine, 0.125 mg PO/ODT/SL q4h PRN, max: 1.5 mg/d; atropine 0.5–1 mg SC/IM/IV/SL q 4–6h PRN C. diff-induced: Metronidazole, 500 mg PO/IV QID x 10–14 days; vancomycin, 125–500 mg PO QID x 10–14 days Non-C. diff infection: Treat appropriately based on culture findings
	• Immunotherapy-related: Dexamethasone, 4–8 mg/d; infliximab, 5 mg/kg q 2–6 weeks Grades 3/4 (Inpatient hospitalization w/ICU for Grade 4)
	 Initiate/continue loperamide, 4 mg PO x 1 then 2 mg PO after each loose stool, up to 16 mg/d If not on opioids: Diphenoxylate/atropine, 1–2 tabs PO q6h PRN, maximum 8 tabs/d
	 Consider hyoscyamine, 0.125 mg PO/ODT/SL q4h PRN, max: 1.5 mg/d; atropine 0.5–1 mg SC/IM/IV/SL q 4–6 h PRN Consider octreotide, 100–200 mcg/d SC, q8h or by continuous infusion
Diarrhea (PAL-19)	Life Expectancy: Weeks to Days (dying patient) • Reevaluate ongoing antidiarrheal, anticholinergic agents • Initiate or increase dose of around-the-clock opioid • Atropine 0.5–1 mg SC/IV/SL q 4–6h PRN • Consider octreotide, 100–200 microgram SC q8h • Consider glycopyrrolate, 0.2–0.4 mg IV q4h PRN
Malignant Bowel Obstruction (PAL-20)	Life Expectancy: Years; Year to Months; Months to Weeks; and Weeks to Days (dying patient) • Reduce opioid dose or rotate opioid • Metoclopramide, 5–10 mg PO QID 30 min before meals and at bedtime; avoid in the setting of complete obstruction • Dexamethasone, 4–12 mg IV daily, discontinue if no improvement in 3–5 days • Scopolamine (patch or IV); hyoscyamine, 0.125 mg PO/ODT/SL q4h PRN; glycopyrrolate, 0.2–0.4 mg IV q4h PRN • Octreotide, 100–300 mcg SC BID-TID or 10–40 mcg/h continuous SC/IV infusion; if prognosis >8 weeks, consider long-acting release (LAR) or depot injection

See key for abbreviations PAL-A (5 of 5)

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Condition	Recommended Agents and Dosage by Estimated Life Expectancy and Symptom Etiology
Sleep/Wake Disturbance (PAL-22)	Life Expectancy: Years; Year to Months; and Months to Weeks Insomnia Trazodone, 25–100 mg PO at bedtime Olanzapine, 2.5–5 mg PO at bedtime Zolpidem, 5 mg PO at bedtime Chlorpromazine, 25–50 mg PO at bedtime Chlorpromazine, 25–50 mg PO at bedtime Uuetiapine, 12.5–25 mg PO at bedtime Lorazepam, 0.5–1 mg PO at bedtime Lorazepam, 0.5–1 mg PO at bedtime For phase shift disorder consider ramelteon (8 mg PO 30 min before bedtime) or melatonin (30 min before bedtime; dosage may vary by formulation) Daytime Sedation Caffeine, 100–200 mg PO q 6 h, last dose 4 PM Methylphenidate, start with 2.5–20 mg PO BID, second dose no later than 6 h before bedtime Dextroamphetamine, 2.5–10 mg PO BID, second dose no later than 12 h before bedtime Dextroamphetamine, 2.5–10 mg PO BID, second dose no later than 12 h before bedtime Rodafinil, 100–400 mg PO each morning Restless Legs Syndrome (RLS) Ropinirole, 0.25 mg PO 1–3 h before bedtime Pramipexole, starting dose 0.125 mg PO at bedtime, may require titration May also consider pregabalin, carbidopa-levodopa, or low-dose methadone with dopamine agonist; however, all of these medications are off-label for RLS
Sleep/Wake Disturbance (PAL-22)	Life expectancy: Weeks to Days (dying patient) • Titrate dose of existing pharmacotherapy

See key for abbreviations PAL-A (5 of 5)

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Clinical Trials: NCCN believes that the best management of any patient with cancer is in a clinical trial. Participation in clinical trials is especially encouraged.

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Condition	Recommended Agents and Dosage by Estimated Life Expectancy and Symptom Etiology
Delirium (PAL-23)	Life Expectancy: Years; Year to Months; and Months to Weeks Mild/Moderate Delirium • Haloperidol, 0.5–2 mg PO BID/TID • Alternatives: risperidone, 0.5–2 mg PO BID; olanzapine, 5–20 mg PO daily; or quetiapine fumarate, 25–200 mg PO/SL BID Severe Delirium (agitation) • Haloperidol, 0.5–2 mg IV q1–4h PRN • Alternatives: olanzapine, 2.5–7.5 mg PO/SL q2–4h PRN (maximum = 30 mg/d); chlorpromazine, 25–100 mg PO/PR/IV q4h PRN for bedbound patients • High-dose neuroleptic-refractory: Consider adding lorazepam, 0.5–2 mg SC/IV q4h
Delirium (PAL-24)	Life Expectancy: Weeks to Days (dying patient) • Upward titrate haloperidol, risperidone, olanzapine • High-dose neuroleptic-refractory: Upward titrate lorazepam • Consider rectal or IV haloperidol • Consider chlorpromazine, 25–100 mg PO/PR at bedtime with or without lorazepam, 0.5–2 mg SC/IV q6h
Palliative Sedation (PAL-33)	Imminently dying patient • Midazolam or Iorazepam, continuous infusion • Propofol, continuous infusion

Abbreviations Key

Timing: q (every); h (hour); d (day); BID (twice a day); TID (three times per day); QID (four times per day); QHS (at bedtime); PRN (as needed) Route of administration: IM (intramuscular); IV (intravenous); ODT (orally disintegrating tablet); PO (oral); PR (rectal); SC (subcutaneous); SL (sublingual)

Note: All recommendations are category 2A unless otherwise indicated.



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	NCCN Categories of Evidence and Consensus
Category 1	Based upon high-level evidence, there is uniform NCCN consensus that the intervention is appropriate.
Category 2A	Based upon lower-level evidence, there is uniform NCCN consensus that the intervention is appropriate.
Category 2B	Based upon lower-level evidence, there is NCCN consensus that the intervention is appropriate.
Category 3	Based upon any level of evidence, there is major NCCN disagreement that the intervention is appropriate.

All recommendations are category 2A unless otherwise indicated.

Note: All recommendations are category 2A unless otherwise indicated.



Discussion

This discussion corresponds to the NCCN Guidelines for Palliative Care. Last updated: February 12, 2021.

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Overview

The aim of the NCCN Guidelines for Palliative Care is to help assure that each patient with cancer experiences the best quality of life possible throughout the illness trajectory by providing guidance for the primary oncology team. The NCCN Palliative Care Panel is an interprofessional group of representatives from NCCN Member Institutions, consisting of medical oncologists, hematologists and hematologic oncologists, radiation oncologists, pediatric oncologists, neurologists and neuro-oncologists, anesthesiologists, psychiatrists and psychologists, internists, palliative care and pain management specialists, and geriatric medicine specialists. These guidelines were developed and are updated annually by the collaborative efforts of these experts based on their clinical experience and available scientific evidence.

More than 1.8 million people are expected to be diagnosed with cancer in the United States in 2020, and 606,520 people are expected to die of the disease.¹ Global cancer rates are increasing, with an associated rise in the number of cancer survivors living with symptoms and disabilities as a result of their disease and/or its treatment (see the NCCN Guidelines for Survivorship).¹-³ More than one-third of patients with cancer in a large observational cohort study reported moderate to severe symptoms in the majority of categories (pain, nausea, anxiety, depression, shortness of breath, drowsiness, well-being, loss of appetite, and tiredness) in the last weeks of life.⁴ Integration of palliative care with disease-directed care may help to address the challenges faced by oncology patients and their families.

The Center to Advance Palliative Care (CAPC; www.capc.org) describes an optimal approach in which care is "provided by a team of palliative care doctors, nurses, and other specialists who work together with a patient's other doctors to provide an extra layer of support. It is appropriate at any age and at any stage in a serious illness and can be provided along with

curative treatment."⁵ During the past 20 years, increasing attention has been paid to quality-of life issues in oncology throughout the disease trajectory.^{3,6-11} Palliative care in oncology began as hospice and end-of-life care, but it has developed into an integral part of comprehensive cancer care with the goal of early intervention to improve patient outcomes.

Literature Search Criteria and Guidelines Update Methodology

Prior to the update of this version of the NCCN Guidelines® for Palliative Care, an electronic search of the PubMed database was performed to obtain key literature in palliative care, using the following search terms: (palliative care AND cancer) OR (palliative care AND oncology) OR (hospice AND cancer) OR (hospice AND oncology) OR ("end of life" AND cancer) OR ("end of life" AND oncology). The PubMed database was chosen as it remains the most widely used resource for medical literature and indexes peer-reviewed biomedical literature.

The search results were narrowed by selecting studies in humans published in English. Results were confined to the following article types: Clinical Trial, Guideline, Meta-Analysis, Multicenter Study, Observational Study, Randomized Controlled Trial, Systematic Reviews, and Validation Studies. The data from key PubMed articles as well as articles from additional sources deemed as relevant to these Guidelines and discussed by the panel have been included in this version of the Discussion section (eg, e-publications ahead of print, meeting abstracts). Recommendations for which high-level evidence is lacking are based on the panel's review of lower-level evidence and expert opinion.

The complete details of the Development and Update of the NCCN Guidelines are available at www.NCCN.org.



Palliative Care in Oncology

These guidelines define palliative care as an approach to patient/family/caregiver-centered health care that focuses on optimal management of distressing symptoms, while incorporating psychosocial and spiritual care according to patient/family/caregiver needs, values, beliefs, and cultures. The goal of palliative care is to anticipate, prevent, and reduce suffering; promote adaptive coping; and support the best possible quality of life for patients/families/caregivers, regardless of the stage of the disease or the need for other therapies. Palliative care can begin at diagnosis; be delivered concurrently with disease-directed, life-prolonging therapies; and should facilitate patient autonomy, access to information, and choice. While palliative care previously focused on end-of-life care, the idea that palliative care needs to be integrated earlier into the continuum of cancer care is increasingly understood. Palliative care becomes the main focus of care when disease-directed, life-prolonging therapies are no longer effective, appropriate, or desired.

Palliative care should be initiated by the primary oncology team, and should be augmented through collaboration with palliative care specialists in an interprofessional team (including but not limited to board-certified palliative care physicians, advanced practice providers, nurses, dietitians, social workers, mental health professionals, chaplains, and pharmacists) to address intractable symptoms and/or complex psychosocial issues.¹⁷ Additionally, palliative care should reach beyond the patient to family and caregivers. When further anti-cancer therapy is likely to do more harm than good, palliative care becomes the predominant care offered to patients with advanced cancer. When this point in the disease trajectory is reached, palliative care can facilitate transfer to hospice care at home or in a care facility. For patients too unstable for transfer out of the inpatient setting, palliative care and/or hospice may provide end-of-life care for patients in the hospital or other care facility. Palliative care should continue

even after the patient's death in the form of bereavement support for the patient's family and caretakers.

The American Academy of Hospice and Palliative Medicine (AAHPM, www.aahpm.org) and the CAPC (www.capc.org) are organizations dedicated to advancing the discipline of hospice and palliative medicine. These organizations seek to expand access to quality palliative care services for people with advanced illness in all settings. Multiple groups have described their ideas and approaches for, experience and outcomes with, and barriers to developing successful programs that integrate palliative care into routine oncologic care. 15,16,18-31

Impact of Palliative Care

Studies have shown that integration of palliative care into the cancer care continuum, particularly early in the course of care, results in improved patient outcomes across multiple measures, including survival, quality of life, symptom intensity, and end-of-life care.

Survival

Several groups have investigated the potential survival benefit of palliative care for patients with cancer. A remarkable study suggested that early introduction of palliative care does not only improve quality of life for patients with advanced cancer but can also improve survival. Early palliative care consultation was a positive prognostic factor for overall survival among patients who were discontinuing anticancer therapy when compared with traditional care models. Similarly, a retrospective analysis of 609 patients with terminal cancer suggested that increased duration of palliative care services was positively correlated with survival time. In another study, home-based palliative care was associated with an equal or longer survival compared to inpatient palliative care in patients with cancer.



Results were reported from the ENABLE III trial, which examined outcomes after early versus delayed initiation of palliative care in patients with advanced cancer. Patients in the early palliative care group had significantly higher Kaplan-Meier 1-year survival rates than the delayed palliative care group (63% vs. 48%, P = .038). The timing of interventions for caregivers was also examined in this trial, suggesting that earlier provision of palliative care for caregivers lessened their depression and stress burden. The early versus delayed in the early palliative care for caregivers lessened their depression and stress burden.

Symptom Intensity and Quality of Life

Palliative care has been shown to have a positive impact on quality of life while reducing symptom intensity, particularly when integrated early in the course of cancer care. In a systematic review and meta-analysis of 10 randomized controlled trials, patients with advanced illness who received specialist palliative care early, particularly those with advanced cancer (n = 1766/2454), had the most pronounced effects on quality of life.³⁸ A Cochrane database review of seven randomized and cluster-randomized controlled trials in patients with advanced cancer (n = 1614) compared early palliative care to treatment as usual/standard of care. Early palliative care significantly improved health-related quality of life and suggested lower symptom intensity compared with controls.^{39,40} Another study demonstrated significant improvement in multiple symptoms within one day of a palliative care consultation, highlighting the potential benefit of palliative care even during brief hospital stays.⁴¹

In addition to quality of life, psychosocial factors have also been studied. Early integration of palliative care for newly diagnosed lung and gastrointestinal cancers was assessed by studying change in quality-of-life measures between baseline, week 12, and week 24. Improvements in quality of life and depression were observed for the lung cancer cohort at 12 and 24 weeks, with improved quality of life and mood reported in the gastric cancer cohort by week 12.⁴² Compared with a care model in which

palliative care was provided on an as-needed basis, standardized early palliative care referral also increased satisfaction with care among caregivers of patients with advanced cancer.⁴³

End-of-Life Care

Various studies have evaluated the impact of palliative care on end-of-life care, specifically aggressive anticancer therapy near the end of life. A retrospective analysis of patients with advanced cancer highlighted the importance of early palliative care consultations (>3 months before death) and revealed an association between outpatient palliative care and decreased aggressiveness of end-of-life care. 44 Several studies have shown that palliative care reduces chemotherapy provided at the end of life. A population study conducted in Japan (n = 26,012) showed that palliative care consultation reduced the percentage of patients receiving inpatient chemotherapy use during the last 2 weeks of life. 45 In one trial, patients receiving early palliative care were less likely to receive intravenous chemotherapy in the last 60 days of life (odds ratio [OR], 0.47; 95% CI, 0.23–0.99; P = .05), ⁴⁶ likely because these patients had a more accurate understanding of their prognosis, which impacted decisions about their care. 47 A prospective study showed that early integration of palliative care facilitated the discontinuation of anticancer regimens and improved measures of quality of life for patients with advanced breast or gynecologic cancers.³³ Likewise, the lack of palliative care team consultation has been shown to be a predisposing factor for futile life-sustaining treatments at the end of life.⁴⁸ An observational study suggested that inpatient palliative care led to stabilized end-of-life care trajectories after discharge.49

Studies have also demonstrated that community-based or home-based palliative care services can positively influence patient care. These services have been associated with reduced need for end-of-life emergency department visits, reduced length and frequency of



hospitalization, as well as fewer intensive care unit (ICU) admissions and in-hospital deaths. ⁵⁰⁻⁵⁴ Palliative care has been shown to reduce symptom burden, improve quality of life, and increase the odds of dying at home. Similarly, a 2013 Cochrane Database systematic review that analyzed home palliative care in patients with advanced illness demonstrated reliable reduction of symptom burden and increased likelihood of dying at home without a negative impact on caregiver grief. ⁵⁵

Specialty Palliative Care

Systematic review of the palliative care in oncology data supported best outcomes with care provided by an interprofessional palliative care team initiated within 8 weeks of diagnosis. In much of the existing trial data, oncologist-alone care serves as the usual care arm, while interprofessional palliative care is provided in the intervention arm. The data strongly suggest that using an interprofessional team approach to provide oncologic and palliative aspects of care is superior to placing the entire burden on the oncologist alone. The principal investigators of several of these major trials support implementation of the TEAM approach (*Time*, an extra hour a month; *Education*, especially about prognostic awareness, achievable goals, and advance care planning; *Assessments* done formally for symptoms, spiritual needs, and distress/coping; and *Management*, by an interprofessional team) as a structured way for oncology offices to design their care. ⁵⁷

A meta-analysis of trial data comparing outpatient specialty palliative care with usual care in adults with advanced cancer revealed a 14% increase in 1-year survival compared with controls (n = 646; 56% vs. 42%, P < .001) and a median overall survival benefit of 4.56 months. Quality of life was also significantly improved. ⁵⁸ Specialist palliative care has also been linked to cost savings. Earlier palliative care consultations have been associated with decreased health care costs for patients with advanced cancer, including those with multiple comorbidities. ⁵⁹⁻⁶¹ According to recent data,

dedicated palliative care units and programs can be cost-effective and favorably impact health systems finances.^{62,63}

Role of Hospice Care

Hospice is the most established model of palliative care for patients with a prognosis of less than 6 months and is eligible for coverage by third-party payers and Medicare. Enrollment in hospice has been shown to reduce hospitalization and receipt of high-intensity non-hospice care at the end of life. End-of-life care can often be more aggressive than what is supported by current evidence. Generally, Medicare patients with poor-prognosis cancer received highly intensive end-of life-care. 64 Furthermore, administration of chemotherapy late in the course of cancer care, including in the last days of life, is growing more common, 65,66 and oncologists have reported that they have found hospice regulations and reimbursement limitations to be too restrictive. 67 Overall, provision of end-of-life care was inconsistent and varied widely across regions, even among comprehensive cancer centers. 64,68

An analysis of the SEER database revealed that men with advanced prostate cancer who were enrolled in hospice were less likely to receive high-intensity care, including ICU admission and inpatient stays, at the end of life.⁶⁹ Moreover, a study of 207 deceased patients with cancer who had stopped cancer treatment showed reduced emergency department visits, hospitalizations, and other noncancer clinic visits for those enrolled in hospice.⁷⁰ Additionally, analyses of data from 3069 deceased patients more than 50 years of age (extracted from the Health and Retirement Study) revealed that hospice enrollment significantly decreased hospitalization, non-hospice health care utilization, and cost of care.⁷¹

Unfortunately, many studies have suggested that palliative and hospice care often go underutilized.⁷²⁻⁷⁹ A recent analysis of SEER/Medicare care on hospice use in end-of-life cancer care (n = 55,058) found that hospice



enrollment ranged from about 51% for colorectal cancers up to 62% for prostate cancers. 72 Despite the 6-month prognosis eligibility, the median length of hospice service (LOS) for Medicare patients with cancer in 2016 was 19 days.80 Approximately 28% of hospice patients died or were discharged within 7 days of admission to hospice care.80 Thus, barriers to early referrals still exist. 16,76 Additionally, one study at an academic medical center revealed marked and unwarranted variation in hospice LOS within divisions and by doctors. For instance, in thoracic oncology, several oncologists had an average LOS of 36 days while others were clustered around 4 days for the same patient population. However, oncologists were receptive to feedback and training.81 By establishing hospice referrals as a quality improvement measure, one health system reported that median LOS in hospice doubled within a year of implementation.82 Similarly, another recent study revealed that educational outreach and implementation of specific triggers for palliative care consultation were associated with increased hospice referrals and LOS.83

Training in Palliative Care

All health care professionals and trainees should participate in education that results in acquisition of palliative care knowledge, skills, and attitudes. The establishment of hospice and palliative medicine as a medical subspecialty in 2008 received support from at least 10 cosponsoring American Board of Medical Specialties (ABMS; www.abms.org) boards, including Anesthesiology, Family Medicine, Internal Medicine, Physical Medicine and Rehabilitation, Psychiatry and Neurology, Surgery, and Pediatrics. Support for expansion of palliative medicine education has been offered by the Liaison Committee on Medical Education (LCME; www.lcme.org), which has mandated palliative medicine education for medical schools. In addition, the Accreditation Council for Graduate Medical Education (ACGME; www.acgme.org) now requires training in palliative medicine for oncology fellows, including training in pain, psychosocial care, personal awareness, and hospice care.

Researchers at a large urban teaching hospital demonstrated the effectiveness of education on palliative care and referral criteria for increasing overall referrals to palliative care services and enhanced referrals for the purpose of pain management.⁸⁴ Effective training in palliative care can also positively impact provider, patient, and caregiver quality of life. One study suggested that an online palliative care education intervention for primary care physicians led to measurable improvements in patient outcomes such as pain, symptoms, and quality of life.⁸⁵ In a survey study, oncology fellows reported that training on end-of-life issues and goal-of-care discussions mitigated burnout and distress.⁸⁶

Provider education and training in palliative care can positively impact providers and patients. The OPTIM (Outreach Palliative Care Trial of Integrated Regional Model) study is a multiregional, mixed-methods study that examined the effects of a palliative care intervention implemented across four regions of Japan. The intervention consisted of provider education and training; education and awareness initiatives for the general public/patients; establishment of community-based palliative care teams to instruct community health care institutions; and establishment of regional palliative care centers to coordinate multidisciplinary community resources. Surveys were provided to patients, bereaved family members, physicians, and nurses both before and after the intervention. The results indicated an increased percentage of patients receiving palliative care and dying at home, increased patient- and family-reported quality of care, and decreased physician- and nurse-reported difficulties in providing palliative care.

Palliative care resources that may be useful for clinicians are listed in Table 1, below (See MS-30).

Communication in Palliative Care

A National Academy of Medicine report, *Communicating with Patients on Health Care Evidence*, found that 90% of Americans surveyed want to



know their options for tests and treatments and to be involved in decision-making for their health, with almost 50% wanting to discuss the option of forgoing anticancer therapy and continuing non-chemotherapy palliative care. However, the report also found that few respondents had such discussions with their physicians.

Clinicians should discuss prognosis with patients and their families clearly and consistently to help them develop realistic expectations. Research suggests that the majority of patients queried express a desire to receive detailed prognostic information about their disease. 90-93 Assessment and confirmation of understanding of prognosis is important and may guide treatment decisions. In addition, determining the decision-making styles of patients and their families helps facilitate congruence of a patient's goals, values, and expectations with those of the family/caregiver(s). Clinicians should also determine the patient's assessment of the relative importance of quality of life compared with length of life. Information about the natural history of the specific tumor and the realistic outcomes of anticancer therapy should be included in the discussion. Many investigators have shown that seriously ill middle-aged and older patients tend to be more optimistic and less accurate about their prognosis than their physicians; misunderstanding a disease progression timeline can impair advance care planning, including discussions of preferences for cardiopulmonary resuscitation and other life-extending measures.94

Patients nearing the end of life should be assisted in reviewing and revising their life priorities, resolving unfinished business, and putting financial and personal affairs in order. Spiritual, existential, and cultural issues are often best addressed through collaboration with spiritual care counselors, professional translators, the patient's personal clergy, and representatives from the patient's cultural community. Religious and cultural issues surrounding the beliefs and practices near the time of death should be anticipated and carefully managed. 95-97 Finally, social and

spiritual support, as well as careful resource management should be provided to ensure a safe end-of-life care environment, a competent primary caregiver, and access to necessary medications and treatments. Providers must be sensitive to cultural values that may influence the best way for this information to be presented and discussed.

Communication Skills Training

Provider communication skills play a particularly important role for palliative care in oncology. However, several studies have revealed gaps in patient-centered communication with regard to patient prognosis and understanding of the intent of treatment. Valuable insight has been garnered regarding provider communication and patient understanding from the Cancer Care Outcomes Research and Surveillance (CanCORS) study of approximately 10,000 patients with lung or colorectal cancer. A survey of 1193 patients from CanCORS found that 69% of patients with advanced lung cancer and 81% of those with advanced colorectal cancer thought that their palliative chemotherapy could cure them. 98 It is unclear whether these patients were not told their prognosis, did not or could not understand the information, or merely disagreed with the information and answered the survey with a high degree of optimism. 99 This result, however, demonstrates a clear need for improvement in the area of physician-patient communication. Additional analyses of 722 patients with stage IV lung or colorectal cancer showed that only 33% of patients recognized that their chemotherapy regimens were "not at all" likely to cure their cancer. 100 Similar misconceptions also apply to palliative radiation therapy. In a study of 384 patients with inoperable lung cancer, 64% of patients did not understand that their radiation therapy was not curative. 101 Notably, in a cohort of 686 patients with metastatic lung or colorectal cancer from CanCORS, only 16.5% were able to accurately state their prognosis. 102



Survey and observational data have revealed that many doctors are hesitant to have honest discussions with their patients, in part because these discussions can be very difficult and emotionally draining for the physicians. 103-105 Oncologists revealed a high level of perceived burden regarding discussions about discontinuing anticancer treatments, and study results have indicated a desire on the part of providers for additional communication skills training. 104,105 Training in communication has been shown to improve clinician-patient communication 106-110 and to mitigate physician burnout and improve physician empathy and mood. 111 For example, a recent randomized controlled trial showed that an 11-hour communication skills training workshop for oncologists was effective at improving communication skills, including those specific to the transition to palliative care. 112 Additionally, the VOICE cluster randomized controlled trial recently demonstrated the effectiveness of patient-centered communication training for physicians caring for patients with advanced cancer.110

Clear, consistent, and empathetic communication with the patient, family, and caregiver(s) about the natural history of the cancer and its prognosis is at the core of effective palliative care. 113-117 It is important to assess and reassess patient goals and preferences regarding communication of difficult news over the course of disease. 118 When patients understand the goals of treatment, they can make choices that are consistent with their life goals. A multicenter observational study revealed that prognostic disclosure from physicians resulted in more realistic patient expectations regarding life expectancy without reducing emotional well-being or patient ratings of their physician relationship. 119 In addition, effective patient-physician communication has been shown to decrease patient stress, increase adherence to treatment, and improve outcomes. 120,121 Open communication with relatives or caregivers of patients with cancer is also critical, particularly when patients near the end of life. 116,122

Based on existing evidence and expert consensus, ASCO released a consensus guideline in 2017 addressing how to improve patient-clinician communication on topics such as goals of care, prognosis, end-of-life care, and facilitating family involvement in care. 123

NCCN Guidelines for Palliative Care

The NCCN Guidelines for Palliative Care were developed to facilitate the appropriate integration of palliative care into oncology practice. The guidelines outline procedures for screening, assessment, palliative care interventions, reassessment, and after-death care. The panel initially focused on the needs of patients in their last 12 months of life in order to distill the content of textbooks and curricula into guidelines in a manner similar to existing NCCN disease-oriented and symptom-oriented guidelines. The NCCN Guidelines for Palliative Care have expanded the focus to all patients and family experiencing cancer throughout the disease trajectory, consistent with the Clinical Practice Guideline from ASCO.⁵⁶

Screening

The primary oncology team should screen all patients at every visit for one of more of the following: 1) unmanaged symptoms; 2) moderate to severe distress related to cancer diagnosis and therapy; 3) serious comorbid physical, psychiatric, and psychosocial conditions; 4) complex psychosocial needs; 5) poor prognostic awareness; 6) potentially life-limiting disease; 7) advanced cancers associated with high morbidity and mortality; 8) patient/family/caregiver concerns about the course of disease and decision-making; 9) patient or family requests for palliative care; and/or 10) patient request for hastened death. Patients who meet these screening criteria¹²⁴ and those who make a specific request for palliative care should undergo a full palliative care assessment. The panel also recommends an assessment and integration of palliative care for



patients with advanced cancers who receive hematopoietic stem cell transplant. 125,126

Patients who do not meet these screening criteria should be re-screened at the next visit. In addition, the oncology team should inform patients, family, and caregivers about palliative care services. Anticipation of palliative care needs and prevention of symptoms should be discussed, and conversations regarding advance care planning should be initiated.

Comprehensive Assessment

Patients who meet screening criteria (see above) should undergo a comprehensive palliative care assessment by their primary oncology team evaluating the benefits and burdens of anticancer therapy; decision-making capacity; coping strategies; physical symptoms; psychosocial or spiritual distress; personal goals, values, and expectations; educational and informational needs; financial toxicity; and cultural factors affecting care.⁶⁻⁸

Assessment for Benefits and Burdens of Anticancer Therapy

Many cancer symptoms can be relieved by control of the cancer with anti-cancer therapy. Assessment of the benefits and burdens of anticancer therapy for each individual is based on the existing NCCN disease-specific guidelines (the most recent version of all guidelines can be found on the NCCN website at www.NCCN.org). Special attention should be given to the natural history of the specific tumor; the potential for response to further treatment; the meaning of anticancer therapy to the patient/family/caregiver(s); the potential for treatment-related toxicities including impairment of vital organs and performance status; and serious comorbid conditions. Specific recommendations regarding anticancer therapy for patients with various life expectancies are discussed in *Palliative Care Interventions*, below.

Assessment of Patient/Family/Caregiver Goals, Values, Expectations, and Priorities

Patients and their families should also be asked about their personal goals, values, expectations, and priorities. Shared decision-making with patient, family, and caregiver(s) is important. A 2015 systematic review of quantitative studies identified the following elements of palliative care that were ranked as most important by patients and their families: effective communication and shared decision-making; expert care; respectful and compassionate care; and trust and confidence in clinicians.¹¹⁷

Patients' priorities should be discussed, including their goals, their definition of quality of life, and their perception of how anticancer therapy will fit into their lives. Survival statistics may be helpful in these conversations; however, patients' abilities to assimilate such data should be assessed. Goals and expectations that might be better met by the hospice model of palliative care should be identified. Patients should be given the opportunity to understand the expected trajectory of their disease, particularly if it is incurable.

Assessment of Physical Symptoms

The most common symptoms are pain, dyspnea, anorexia, cachexia, nausea, vomiting, constipation, malignant bowel obstruction (MBO), fatigue, weakness, asthenia, insomnia, daytime sedation, and delirium. Palliative interventions for these symptoms are discussed individually below.

Assessment of Psychosocial Distress

Assessment of psychosocial distress should include both the patient and the caregivers, and should focus on illness-related distress and psychosocial, spiritual, or existential needs according to the NCCN
Guidelines for Distress Management. Concerns regarding social support and resources (ie, home, family, community, or financial issues) must also be assessed. Recommendations for the management of psychosocial



distress can be found below and in the NCCN Guidelines for Distress Management. Other concerns that may increase distress include employment (or loss of employment) and social isolation (or loneliness); these issues should be assessed to ensure appropriate interventions can be provided, as feasible and desired.

Assessment of Educational and Informational Needs and Cultural Factors Affecting Care

The values and preferences of patients and families about information and communication should also be assessed. The oncology team should inquire about cultural factors affecting care and perceptions of the patient/family/caregiver regarding the patient's disease status. 96,128

Criteria for Consultation with Palliative Care

Criteria for consultation with a palliative care specialist are based on patient characteristics, social circumstances, and anticipatory bereavement issues. The oncology team should consider consultation for patients with limited anticancer treatment options due to lack of access to anticancer therapy; advanced disease process; multiple/severe comorbid conditions; rapidly progressive functional decline; and/or persistently poor performance status. Additional criteria include high risk for poor pain management; high burden of non-pain symptoms resistant to conventional management; frequent emergency department visits or hospital admissions; need for ICU-level care; need for invasive procedures (eg, palliative stenting/gastrostomy); or a high distress score (eg, ≥4 on the Distress Thermometer; see the NCCN Guidelines for Distress Management). Consultation with palliative care specialists should also be considered when there is a need for clarification of the goals of care; patient/family/caregiver or provider dissatisfaction with the care plan; resistance to advance care planning; or a request for hastened death. If applicable, concerns regarding a patient's decision-making capacity should also be assessed; for some approaches, see the NCCN Guidelines for Older Adult Oncology.

Difficult social circumstances or a high risk for persistent complicated bereavement disorder indicate a need for referral for consultation with a palliative care specialist. These may include family/caregiver limitations, inadequate social support, substance use and/or concerns regarding substance use disorders, financial limitations, limited access to care, family discord, intensely dependent relationships, financial limitations, limited access to care, patient's concern regarding care of dependents, spiritual or existential distress, unresolved or multiple prior losses, and/or dependent children and/or older relatives living in the household.

Palliative care consultation should also be considered when complex care coordination issues exist within or among multiple care teams, or if staff issues such as intra- or inter-team conflict, compassion fatigue, moral distress and/or ethical concerns, communication regarding complex decision making, or burnout are present. For more information regarding psychosocial issues affecting care providers, see the section on *Psychosocial Support for Oncology and Palliative Care Providers*.

Palliative Care Interventions

The oncology team should initiate palliative treatments following the specific recommendations described in these guidelines for common symptoms. Comorbid physical and psychosocial conditions should be treated by appropriate clinicians. Consultation or collaboration with palliative care specialists or teams is recommended for patients with more complex concerns to improve their quality of life and survival. 32,35,36,129 Referrals should be made as needed to mental health, social and psychosocial support services, spiritual care, health care interpreters, hospice services, or other specialists. Finally, the oncology team may be helpful in identifying additional support through religious organizations, schools, or other agencies in the community.



The panel divided patients into three groups to address the effect of life expectancy on the delivery of palliative care interventions: 1) patients with years to months to live; 2) patients with months to weeks to live; and 3) dying patients in their final weeks to days. Patients in their final hours of life are referred to as *imminently dying* and may require special interventions. The panel recognizes the lack of precision in estimating life expectancy but believes that this delineation will be useful for the delivery of appropriate palliative care interventions. The patient and family's personal, spiritual and existential, cultural, and religious goals, values, and expectations may change throughout these timeframes. Optimal provision of palliative care requires ongoing reassessment and modification of strategies, as well as ongoing communication between the patient, family, caregiver(s), and health care team.

Indicators that a patient's prognosis is worsening include: decreased performance status (ECOG score ≥3; KPS score ≤50), persistent hypercalcemia, central nervous system metastases, delirium, MBO, superior vena cava (SVC) syndrome, spinal cord compression, cachexia, malignant effusions, need for palliative stenting or venting gastronomy, potentially life-limiting disease, or other serious comorbid conditions. Many patients with stage IV cancers, especially those with metastatic lung cancer, pancreatic cancer, and glioblastoma multiforme, would benefit from palliative care beginning at diagnosis, because expected survival is limited.¹³³¹² Palliative care interventions for managing specific symptoms and the benefits and burdens of anticancer therapy are discussed below as outlined in the algorithm. Additional palliative care interventions for other symptoms will be developed as deemed necessary.

Anticancer Therapy

Patients who have years to months to live and a good performance status are likely to be interested in continuing anticancer therapy to prolong survival and reduce cancer-related symptoms.¹³³⁻¹³⁶ Anticancer therapy

may be conventional evidence-based treatment as outlined in the NCCN disease-specific guidelines (available at www.NCCN.org) or treatment in the context of a clinical trial. In some of the advanced-stage cancers, chemotherapy may be superior to best supportive care and may prolong survival. Palliative RT and/or interventional procedures also play an important role in the management of patients with advanced cancer. To assess the risk of serious complications in patients with neutropenic fever, the panel recommends referring to the NCCN Guidelines for Prevention and Treatment of Cancer-Related Infections.

Furthermore, patients with advanced cancer who are not eligible for systemic chemotherapy may benefit from immunotherapy or molecular targeted therapies that may be effective for relieving symptoms, maintaining stable disease, and/or improving quality of life without the adverse events that may be associated with cytotoxic cancer therapies. 146,147 Physicians, patients, and their families should discuss prognosis, intent and goals of therapy (palliative or curative), range of choices, benefits and burdens of anticancer therapy, and possible effects on quality of life. In addition, the oncology team should prepare the patient psychologically for possible disease progression or recurrence. For an approach to decision-making in older adults and geriatric screening tools, see the NCCN Guidelines for Older Adult Oncology.

Provide primary palliative care to include both anticancer treatments aligned with patient goals and priorities and disease-related symptom management. Anticancer therapy should be in line with stated patient goals and priorities and be accompanied by appropriate prevention/management of side effects as well as palliative care. A longitudinal cohort study evaluated the impact of palliative chemotherapy on quality of life near death as a function of patient performance status. In patients with progressive metastatic cancer, palliative chemotherapy failed to improve quality of life near death for those with moderate or poor



performance status and worsened quality of life near death for those with initially good performance status.¹⁴⁸ Studies have reported that, at times, anticancer therapy may go beyond what is evidence-based for patients with advanced or metastatic disease.^{45,149,150} In some cases, nonpharmacologic and/or integrative interventions (eg, massage, and music or art therapy) may be considered.

Patients with months to weeks to live should be provided with guidance regarding the anticipated course of the disease. Physicians should confirm patients' understanding of goals of therapy and preferences regarding prognostic information. As functional status worsens, these patients may become more concerned about the side effects of cancer-directed treatment and consider focusing their care on maintaining quality of life. The option of discontinuing anticancer treatment not directly addressing a symptom complex and initiating goal-directed supportive care should be discussed, including referral to specialized palliative care services or hospice. 147,148,151-153 To avoid demeaning the value of end-of-life care, palliative care and/or hospice care should not be described as "giving up," but instead reframed as "fighting" for better quality of life. In addition, if appropriate, patients and families should be encouraged to complete any necessary legal documents.

In general, patients with weeks to days to live (ie, dying patients) should discontinue all treatments not directly contributing to patient comfort. Intensive palliative care focusing on symptom management should be provided in addition to preparation for the dying process. Referral for hospice care should be placed, if not already done.

Advance Care Planning

The oncology team should initiate discussions of personal values and preferences for end-of-life care while patients have a life expectancy of years to months. Advance care planning should be encouraged early and

readdressed along the care continuum if not already completed. The patient's decision-making capacity should also be assessed, and a surrogate decision-maker identified. Several studies have shown that these discussions frequently happen too late in the trajectory of disease, often during acute hospital care and often with health professionals other than the primary oncologist. ¹⁵⁴⁻¹⁵⁶ Earlier end-of-life care discussions have been associated with less aggressive care and increased use of hospice, ^{157,158} while less aggressive care has been associated with an improved quality of life. ¹⁵⁹ Studies suggest that most patients with cancer would prefer to die at home, ^{160,161} but lack of timely advance care planning can render this impossible.

A randomized controlled trial of a structured intervention to facilitate end-of-life discussions (consisting of an information pamphlet and provider discussion) led to earlier designation of do-not-resuscitate orders and decreased the likelihood of patients dying in the hospital. In addition, a recent study showed that electronic prompts and email reminders to doctors could increase rates of documentation of code status in patients with advanced lung cancer. A 2015 systematic review summarizes the evidence base from randomized trials of interventions designed to promote shared decision-making and advance care planning in patients with serious illness.

Advance care planning should include an open discussion about palliative care options, such as hospice; personal values and preferences for end-of-life care; the congruence between the patient's wishes/expectations and those of the family/caregiver/health care team; and formal documents including advance directives, living wills, medical powers of attorney, health care proxy, or any other documents delineating specific limitations regarding life-sustaining treatments (eg, cardiopulmonary resuscitation, mechanical ventilation, and artificial nutrition/hydration). It may be helpful to determine the patient and family's



prior experience(s) with end-of-life care. The patient's values and preferences and any decisions should be documented in the medical record, including MOLST or POLST (Medical Orders for Life-Sustaining Treatment or Physician Orders for Life-Sustaining Treatment) if completed.¹⁶⁵

When the patient's life expectancy is reduced to months to weeks, the oncology team should actively facilitate completion of appropriate advance directives and ensure their availability in all care settings. MOLST/POLST should be documented and accessible to all providers across care settings. The team should also confirm the patient's values and decisions in light of changes in status.

The patient's preferred location for receiving end-of-life care should be determined. Most patients with cancer would prefer to spend one's remaining time at home, 160,161 but sometimes their care needs are too great to be feasible in the home. Some patients request to receive end-of-life care in a skilled nursing facility or an in-patient hospice facility. 161,166 A prospective study showed that patients dying in an ICU had higher levels of physical and emotional distress compared with patients dying at home or in hospice. Additionally, caregivers of these patients had a greater incidence of prolonged grief disorder. 167 Providing palliative care services has been shown to decrease deaths in ICUs. 166 A retrospective cohort study showed that patients who wanted to be at home at the end of life were more likely to do so if they had daily hospice visits, if they were married, if they had advance directives, if they did not have moderate or severe pain, or if they had good performance status. 161 A second retrospective study suggested that referral to specialist palliative care at a greater interval of time prior to death increased the likelihood of patients dying at home or in hospice rather than in the hospital. 168 If advance care plans have not been completed, the oncology team should explore the

patient's reluctance to engage in advance care planning and refer to palliative care if needed.

In patients with a life expectancy of only weeks to days, the patient's decision regarding cardiopulmonary resuscitation and other life-sustaining treatments should be clarified and confirmed. Providers should facilitate continued involvement of the primary care physician and primary oncology team. The desire for organ donation and/or autopsy should also be explored with the patient. The oncology team should ensure that the care provided complies with the patient's advance care plan.

Symptom Management

With regard to symptoms, the management of pain, dyspnea, anorexia/cachexia, nausea and vomiting, constipation, diarrhea, MBO, fatigue, delirium, and psychological distress are fundamental 169-171 and are discussed in detail below. Symptoms should be comprehensively assessed in all patients. In non-communicative patients, symptom intensity may be assessed using physical signs. Education should be provided to the patient/family/caregiver on the patient's condition and the risk/benefit of treatment options. In addition to education, psychosocial and emotional support for the patient/family/caregiver(s) is also an important part of symptom management. As a general principle, if/when appropriate, providers should try to use palliative interventions that may address multiple symptoms.

Pain

See the NCCN Guidelines for Adult Cancer Pain for specific recommendations for pain management and education on opioid safety. Provide education to the family/caregiver on the role of pain medications, customizing the education to the patient's particular situation. In addition, it is important to note that dying patients in their last weeks of life have several specific requirements. For instance, if feasible or desired, pain



management should be balanced against reduced level of consciousness. In fact, opioids can be titrated aggressively for moderate/severe acute/chronic pain.¹⁷² In addition, palliative sedation can be considered for refractory pain (see below) following consultation with pain management/palliative care specialists. Single-fraction palliative RT may be used to address pain associated with bone metastases.^{144,145,173,174} Study data suggest that 40% of patients (122/298) who received a single 8 Gy RT dose for painful bone metastases experienced pain reduction and improved quality of life within 10 days.¹⁷⁴

Dyspnea

Dyspnea is one of the most common symptoms in patients with advanced lung cancer. The American Thoracic Society consensus statement defines dyspnea as a subjective experience of breathing discomfort that consists of qualitatively distinct sensations that vary in intensity. The Potentially reversible underlying causes or comorbid conditions should be treated using chemotherapy or radiation therapy; therapeutic procedures for cardiac, pleural, or abdominal fluid Tro-179; bronchoscopic therapy; or bronchodilators, diuretics, steroids, antibiotics, transfusions, or anticoagulants for pulmonary emboli.

Both pharmacologic and non-pharmacologic interventions have been investigated in the management of dyspnea. While there are little definitive data evaluating the effectiveness of dyspnea interventions, ^{180,181} the panel members agree that there are sufficient data to make treatment recommendations. ^{178,182}

The panel recommends first considering non-pharmacologic interventions including the use of handheld fans directed at the face, 183,184 cooler temperatures, stress management, relaxation therapy, and physical comfort measures. A randomized controlled trial examined the effects of room air versus palliative oxygen delivered via nasal cannula in patients

with refractory dyspnea. Dyspnea scores were no different among patients receiving palliative oxygen versus room air, encouraging the use of less burdensome interventions after brief assessment of the effect of oxygen therapy on the individual patient. ¹⁸⁵ If nonpharmacologic measures do not provide desired relief, pharmacologic interventions may be considered including supplemental oxygen for symptomatic hypoxia and opioids with or without benzodiazepines. ^{178,180,181,186-189} Benzodiazepines can be considered for coexisting anxiety. However, the reported beneficial effect of benzodiazepines on dyspnea in patients with advanced cancer is small, and the addition of benzodiazepines to opioids can increase the risk of respiratory depression. ^{180,190}

Of the opioids, morphine has undergone the most extensive investigation for treating dyspnea in patients with cancer; some studies have also looked at opioids such as fentanyl and oxycodone. Prophylactic fentanyl provided through buccal or subcutaneous routes improved episodic, exertional dyspnea in two small randomized, controlled trials in patients with cancer. 191,192 Nebulized fentanyl has also been studied. A single-institution trial of nebulized fentanyl in patients with cancer with dyspnea showed improved oxygenation and reduced tachypnea, and 79% of patients said it improved their breathing. 193 An attempted randomized, placebo-controlled trial at the same institution was not successful, because the practice had already diffused widely with over 1000 doses being prescribed. 194 Additionally, an observational study of 136 patients with terminal cancer also suggested that continuous infusion of subcutaneous oxycodone may provide relief of dyspnea in addition to relief of pain. 195 For patients receiving chronic opioids, the panel recommends consideration of a 25% dose increase to manage dyspnea. In addition, for acute progressive dyspnea or for patients who are not opioid naïve, more aggressive titration may be required. For additional information on opioid titration, please see the NCCN Guidelines for Adult Cancer Pain.



Scopolamine, atropine, hyoscyamine, and glycopyrrolate are options to reduce excessive secretions associated with dyspnea. 196-200
Glycopyrrolate does not effectively cross the blood—brain barrier and is less likely than the other drug options to cause delirium, but this agent can produce anticholinergic side effects. 201-203 Scopolamine can be administered subcutaneously or transdermally. Physicians should be aware that the onset of benefit for transdermal scopolamine patches is about 12 hours; 204 thus, they may not be an appropriate choice for imminently dying patients. A subcutaneous injection of scopolamine can be administered when the patch is applied or if management of secretions is inadequate.

High-flow nasal oxygen and noninvasive mechanical ventilation are generally not available outside of the acute care setting, but may provide temporary improvements in hypoxemia and dyspnea. In a recent feasibility study of 200 patients with solid tumors randomized to receive either noninvasive positive-pressure ventilation (biphasic positive airway pressure, BiPAP) or conventional oxygen therapy, patients in the ventilation group had greater improvements in dyspnea symptoms and required lower doses of opiates than patients in the oxygen group.²⁰⁵ A smaller phase II randomized trial comparing high-flow oxygen to BiPAP for persistent dyspnea in patients with advanced cancer revealed no significant differences between the two approaches.²⁰⁶ Palliative RT can be considered for patients with symptomatic SVC syndrome or those who have respiratory obstruction by tumor mass.^{139,207}

When caring for actively dying patients, providers should discuss the reversibility of respiratory failure and treatment options, and provide anticipatory guidance for patient/family/caregiver(s) about dying of respiratory failure. Options such as a time-limited trial of mechanical ventilation or therapy with high-flow nasal cannula may be considered, if consistent with the patient's goals and values. However, as life expectancy

decreases, the role of mechanical ventilation and oxygen diminishes, and the role of other non-pharmacologic therapies and pharmacologic interventions increases. The panel recommends first considering nonpharmacologic therapies, including educational, psychosocial, and emotional supportive measures. Other interventions to maintain cooler temperatures (including fans) should be considered. If nonpharmacologic measures do not provide desired relief, pharmacologic therapies may be considered, including: oxygen supplementation (if hypoxic and/or subjective relief is reported); morphine (if opioid naïve); or benzodiazepines. For patients receiving chronic opioids, the panel recommends consideration of a 25% dose increase to manage unrelieved dyspnea. In addition, for acute progressive dyspnea or for patients who are not opioid naïve, more aggressive titration may be required. For additional information on opioid titration, please see the NCCN Guidelines for Adult Cancer Pain. If fluid overload is a contributing factor, enteral and parenteral fluids should be decreased or discontinued, and low-dose diuretics can be considered.

Anorexia/Cachexia

Cachexia is physical wasting with loss of skeletal and visceral muscle mass and is very common among patients with cancer. Many patients with cancer lose the desire to eat (anorexia), which contributes to cachexia. Cachexia can also occur independently from anorexia, as proinflammatory cytokines and tumor-derived factors directly lead to muscle proteolysis. Cachexia leads to asthenia (weakness), hypoalbuminemia, emaciation, immune system impairment, metabolic dysfunction, and autonomic failure. Cancer-related cachexia has also been associated with failure of anti-cancer treatment, increased treatment toxicity, delayed treatment initiation, early treatment termination, shorter survival, and psychosocial distress. A study that examined cancer cachexia in a cohort of 1473 patients across all weight ranges showed that



muscle depletion conveys a similarly poor prognosis as involuntary weight loss, regardless of body mass index.²¹¹

Initial steps include evaluating the rate and severity of weight loss and associated symptoms, and educating the patient/family/caregiver on the patient's condition and discussing the risk/benefit of available treatment options. Clinicians should address conditions or symptoms that interfere with food intake, such as dysgeusia, xerostomia, dental/jaw issues, intractable hiccups, mucositis, oropharyngeal candidiasis, depression, early satiety, nausea and vomiting, and pain, among others, and psychiatric evaluation may be considered if the patient has a history of an eating disorder. Treatment may include the relief of symptoms that interfere with food intake (eg, pain, constipation, nausea/vomiting), as well as metoclopramide for early satiety due to gut dysmotility. 178,182,212 A swallowing evaluation may also be considered.

For patients with months-to-weeks or weeks-to-days life expectancy, appetite stimulants may be helpful (eg, megestrol acetate, dexamethasone, olanzapine) if increased appetite is an important aspect of quality of life.²¹³⁻²¹⁷ Systematic reviews and meta-analyses of megestrol acetate demonstrate improved appetite and slight improvements in weight gain when using this drug to treat anorexia/cachexia in patients with cancer.^{214,218} While one quarter of patients treated with megestrol acetate may have increased appetite and 1 in 12 may improve their weight, clinicians should be mindful of the increased risks of thromboembolic phenomena and death.²¹⁴

Some studies suggest that combination therapy approach with megestrol acetate and other therapies may yield improved outcomes for patients with cancer cachexia.²¹⁸ A randomized phase III trial in 332 patients with cancer-related anorexia/cachexia revealed superior outcomes for patients receiving a combination regimen that included medroxyprogesterone, megestrol acetate, eicosapentaenoic acid and L-carnitine

supplementation, and thalidomide, versus therapy with any of the above single agents.²¹⁹ Another phase III trial of 104 patients with advanced gynecologic cancers and cachexia supported the merits of combination therapy; compared with megestrol acetate alone, patients receiving megestrol acetate plus L-carnitine, celecoxib, and antioxidants had improved lean body mass, appetite, and quality of life.²²⁰

Although cannabinoid-based interventions (eg, dronabinol, cannabis) have some demonstrated efficacy for treating chemotherapy-induced nausea and vomiting and AIDS-related anorexia, the data to support cannabinoid-based interventions for treating anorexia/cachexia in patients with cancer are very limited, in part due to legal constraints within this field of research.²²¹ A randomized clinical trial of cannabis extract and delta-9-tetrahydrocannabinol in patients with cancer-related anorexia-cachexia syndrome did not demonstrate a benefit of these agents over placebo on appetite and quality of life. 222 Another randomized trial comparing megestrol acetate to dronabinol in treating cancer-associated anorexia revealed megestrol acetate to be superior for promoting weight gain (75% vs. 49% of patients) and appetite (11% vs. 3%) in patients with advanced cancer.²²³ However, to a lesser extent, dronabinol did improve appetite and weight gain in some study patients. Ultimately, for some patients with cancer-related anorexia, cannabinoids could be helpful. However, it is important to note that cannabinoid administration in elderly patients may induce delirium, and providers should be aware of the local state rules and regulations regarding medicinal cannabinoid use.

Although some studies show nutritional interventions to be ineffective, ²²⁴ consultation with a registered dietitian should be considered, because calorie-dense, high-protein supplementation has demonstrated some efficacy for weight stabilization. ^{178,208,225-227} A meta-analysis found that while nutritional intervention does not significantly affect weight gain or



energy intake, it can improve some aspects of quality of life, including emotional functioning, dyspnea, and hunger.²²⁸ Nutritional support, including enteral and parenteral feeding as appropriate, should also be considered when the disease or treatment affects the ability to eat and/or absorb nutrients and the patient's life expectancy is months to years.²²⁹

The goals and intensity of nutritional support change as life expectancy is reduced to weeks to days. Education and emotional support should be provided regarding the natural history of the disease, as nutritional support might not reverse weight loss in patients with advanced cancer. Overly aggressive enteral or parenteral nutrition therapies can actually increase the suffering of dying patients. ²²⁹⁻²³² In addition, a recent randomized controlled trial of patients with cancer enrolled in hospice found that parenteral hydration had no effect on dehydration symptoms such as fatigue and hallucination, nor any effect on quality of life or survival. ²³³ Therefore, instead of artificial hydration and nutrition, palliative care in the final weeks of life focuses on treating dry mouth and thirst, and providing education and emotional support to the patient, family, and caregiver(s) regarding the emotional aspects of withdrawal of nutritional support.

Nausea and Vomiting

Chemotherapy-induced nausea and vomiting has a major impact on a patient's quality of life.²³⁴ Nausea and vomiting induced by chemotherapy or radiation therapy should be managed as outlined in the NCCN Guidelines for Antiemesis. Patients can also experience nausea and vomiting unrelated to chemotherapy and radiation, resulting from gastric outlet obstruction, bowel obstruction, constipation, opioid use, or hypercalcemia.²³⁵ These causes should be identified and treated. Palliative RT should be considered for nausea and vomiting related to brain metastases.^{139,236,237} Proton pump inhibitors and histamine-2 (H2) receptor antagonists can be used to manage gastritis or gastroesophageal reflux. Gastric outlet obstruction may benefit from treatment with

corticosteroids; alternative treatment options include endoscopic stenting or insertion of a decompressing G-tube. Many medications (including non-prescribed supplements and herbs) can also cause nausea and vomiting. Blood levels of possible culprits, such as digoxin, phenytoin, carbamazepine, and tricyclic antidepressants, should be checked.^{238,239} Also, patients should be screened for excess use of marijuana/cannabis for possible cannabis-associated hyperemesis syndrome, and counseled regarding cessation if indicated.

Non-specific nausea and vomiting are often managed with dopamine- or 5-HT3 (5-hydroxytryptamine 3)-receptor antagonists (eg. prochlorperazine, haloperidol, metoclopramide, olanzapine, ondansetron). However, experts have debated the quality and strength of the evidence to support specific agents in the management of nonspecific nausea and vomiting in palliative care. 240,241 A systematic review assessed the level of evidence for antiemesis unrelated to chemotherapy, concluding that antiemetic recommendations have moderate to weak evidence at best; the strongest evidence supported the use of metoclopramide.²⁴¹ For anxiety-related nausea, the addition of benzodiazepines can be considered. If a vertiginous component to the nausea and vomiting exists, anticholinergic/antihistamine agents may be appropriate. Non-pharmacologic therapies such as acupuncture, hypnosis, and cognitive behavioral therapy (CBT) can also be considered.²⁴²⁻²⁴⁴ When patients experience dehydration, uremia, or hypercalcemia, the panel recommends management with hydration and optimization of electrolytes.

For persistent nausea and vomiting, the panel recommends titrating dopamine receptor antagonists to maximum benefit and tolerance.²⁴⁵⁻²⁴⁹ In the setting of continued nausea and vomiting, consider additional drug classes with potential antiemetic properties: corticosteroids,²⁵⁰⁻²⁵² 5-HT3 receptor antagonists,²⁵³⁻²⁵⁵ anticholinergic agents and/or antihistamines,²⁵¹ oral cannabinoids,^{256,257} or the antidepressant mirtazapine. The



appropriate route of administration should be considered; the panel recommends prescribing oral, sublingual, or rectal agent as appropriate and titrating to maximum benefit. Opioid rotation can also be considered. For persistent/refractory nausea and vomiting, parenteral infusions can be provided as needed/PRN, scheduled, or continuously. Subcutaneous administration of antiemetic agents can also be used as an alternative. An around-the-clock dosing schedule may provide the most consistent benefit to the patient. Continuous intravenous or subcutaneous infusions of different antiemetics may be necessary for the management of intractable nausea and vomiting.

Palliative sedation (see below) can be considered as a last resort if intensified efforts by specialized palliative care or hospice services fail.

Constipation

Constipation occurs in approximately 60% of patients with advanced cancer and most patients treated with opioids. ^{258,259} Although several drugs including antacids, anticholinergic drugs (antidepressants, antispasmodics, phenothiazines, and haloperidol), and antiemetics are known to cause constipation, ²⁶⁰ opioid analgesics are most commonly associated with constipation. In addition to physical discomfort, constipation in patients with advanced cancer can cause psychological distress and anxiety regarding continued opioid use. ²⁶¹ Opioid-induced constipation (OIC) should be anticipated and treated prophylactically with a stimulant laxative with or without osmotic laxative. ²⁶² Increasing intake of fluid and physical activity should also be encouraged, when appropriate. Added dietary fiber may be considered for patients with adequate fluid intake.

If constipation is present, the cause and severity should be assessed. Impaction, obstruction, and other treatable causes, such as hypercalcemia, hypokalemia, hypothyroidism, and diabetes mellitus,

should be identified and treated. Providers should discontinue any nonessential constipating medications. Constipation may be treated by stimulant and/or osmotic laxative with a goal of one non-forced bowel movement every 1 to 2 days. If impaction is observed, glycerine suppositories (with or without mineral oil retention enema) may be administered or manual disimpaction may be performed. Suppositories and enemas should be used with caution in patients receiving chemotherapy due to the increased risk of the rectal route of administration in the setting of cytopenia. While there is limited evidence regarding the best initial bowel regimen in patients with cancer, ²⁶³ one small study compared the use of senna alone versus a senna-docusate combination. The results suggested that the addition of the stool softener docusate was not necessary.²⁶⁴ If constipation persists, adding other laxatives may be considered, such as rectal bisacodyl once daily or oral polyethylene glycol, lactulose, magnesium hydroxide, or magnesium citrate.²⁶³ If gastroparesis is suspected, the addition of a prokinetic agent, such as metoclopramide, may be considered.

Peripherally acting μ -opioid receptor antagonists may help to relieve OIC while maintaining pain management. Recent studies have shown that methylnaltrexone provided effective relief of OIC while preserving opioid-mediated analgesia. Naloxegol, a similar peripherally acting μ -opioid receptor antagonist, has also been studied for treating OIC in patients receiving chronic opioids for noncancer pain. Based on these results, the NCCN Panel recommends considering use of methylnaltrexone every other day (no more than once a day) for patients experiencing opioid-induced constipation that has not responded to at least two different classes of standard laxative therapy. Methylnaltrexone should not be used in patients with a postoperative ileus or mechanical bowel obstruction. Gastrointestinal specialists have reported some success also using erythromycin for constipation symptoms that do not



respond to peripherally acting μ -opioid receptor antagonists such as methylnaltrexone.

Several other agents have also been examined for treating constipation. Lubiprostone is a prostaglandin analog oral medication that activates select chloride channels to enhance intestinal fluid secretion.^{270,271} It has been shown to be effective for treating OIC in patients with chronic noncancer pain and can be used in combination with a peripherally acting µ-opioid receptor antagonist such as methylnaltrexone. Linaclotide is a selective agonist of guanylate cyclase-C receptors in the intestines that also enhances intestinal secretions, and has been effective in the treatment of constipation associated with irritable bowel syndrome and chronic idiopathic constipation.^{272,273} The American Gastroenterological Association includes lubiprostone and linaclotide as recommended options for treating constipation associated with irritable bowel disorder.²⁷⁴

Diarrhea

In patients with cancer, diarrhea can be caused by a number of potential factors, including anticancer treatment-related side effects, infection, antibiotic use, dietary changes, or fecal impaction.²⁷⁵ Diarrhea is a common side effect of various chemotherapeutics (eg, fluorouracil and irinotecan), as well tyrosine kinase inhibitors and certain biologic agents (eg, ipilimumab, cetuximab, panitumumab).²⁷⁶⁻²⁷⁹ Abdominal and pelvic radiation therapy (alone or as part of chemoradiation regimens) can also induce gastrointestinal toxicity resulting in diarrhea.^{277,278}

The National Cancer Institute Common Terminology Criteria for Adverse Events (CTCAE) are typically used for measuring diarrhea in this patient population.²⁷⁵ The panel recommends that patients be screened and assessed to determine the severity (grade) and cause of diarrhea. Providers should provide immediate intervention for dehydration based on grade and tailor treatment to potential causes.

For patients who have grade 1 or 2 diarrhea, recommendations include hydration and electrolyte replacement (oral or IV fluids as appropriate) and antidiarrheal medications (eg, diphenoxylate/atropine). If the diarrhea is thought to be chemotherapy-related, dose reduction or discontinuation of therapy may be appropriate. For grade 2 diarrhea, anticholinergic agents such as hyoscyamine or atropine can be considered in addition to the interventions recommended for grade 1. Infection-induced diarrhea should be treated with the appropriate antibiotic. Immunotherapy-related diarrhea can be treated with corticosteroids, infliximab, and/or probiotics (see the NCCN Guidelines for Management of Immunotherapy-Related Toxicities). Patients with grade 3 or 4 diarrhea should receive inpatient treatment (intensive care for Grade 4 diarrhea) if consistent with patient goals. In addition to fluid replacement, antidiarrheal therapy, and anticholinergics, somatostatin analogs (eg., octreotide) can also be considered. For diarrhea due to graft-versus-host disease (GVHD), diet alterations including IV nutrition and steroids may be necessary. In the home setting, subcutaneous hydration can be considered.

For patients with weeks to days of estimated life expectancy, the above interventions can be considered if consistent with the patient's goals of care. At-home IV hydration may be considered in addition to scopolamine or hyoscyamine. If diarrhea persists, consider octreotide or glycopyrrolate. Patients with pain should be started on around-the-clock opioids or receive an increased dose of ongoing opioid regimens.

Malignant Bowel Obstruction

Initial steps should include evaluating the severity and cause(s) of bowel obstruction and educating the patient, family, and caregiver(s) on the patient's condition and available treatment options. Underlying causes that are potentially reversible as well as malignant causes should be identified and treated. MBOs are usually diagnosed clinically and confirmed with radiography. The choice of intervention should be guided by the goals of



treatment, considering prognosis and relative invasiveness of the intervention proposed.

For patients with years to months to live, surgery following CT scan is the primary treatment option. While surgery can lead to improvements in quality of life, surgical risks should be discussed with patients and families, including risk of mortality, morbidity, and re-obstruction. Although surgery is the primary treatment for malignant obstruction, some patients with advanced disease or patients in generally poor condition are unfit for surgery and require alternative management to relieve distressing symptoms. Risk factors for poor surgical outcome include ascites, carcinomatosis, palpable intra-abdominal masses, multiple bowel obstructions, previous abdominal radiation, advanced disease, and poor overall clinical status. In these patients, medical management can include pharmacologic measures, parenteral fluids, endoscopic management, and enteral tube drainage (silicone tubing may offer superior comfort over vinyl).

Pharmacologic management of MBO can be separated into two groups of patients: those for whom the goal is to maintain gut function and those for whom gut function is no longer possible. When the goal is maintaining gut function, patients can be treated with opioids, antiemetics, and corticosteroids, alone or in combination. When gut function is no longer considered possible, pharmacologic options also include somatostatin analogs (eg, octreotide) and/or anticholinergics. 282-286 If octreotide is helpful and the patient has a life expectancy of at least 1 month, it may be beneficial to consider a depot form of octreotide once an optimal dose is established. Antiemetics that increase gastrointestinal mobility such as metoclopramide should not be used in patients with complete obstruction, but may be beneficial when obstruction is partial. Use of octreotide is recommended early in the diagnosis because of its efficacy and tolerability. 287,288 Despite positive findings from several smaller randomized

trials, a recent phase III trial of octreotide in 86 patients with MBO failed to demonstrate a significant effect of this drug on days free of vomiting, number of vomiting episodes, symptom management, and other secondary endpoints.²⁸⁹

A venting gastrostomy tube (inserted by interventional radiology, endoscopy, or surgery) or an endoscopically placed stent can also palliate symptoms of MBO.²⁹⁰⁻²⁹⁴ Total parenteral nutrition can be considered to improve quality of life in patients with a life expectancy of years to months. These interventions have been shown to have little positive impact on survival time, but may improve quality of life.^{130,131}

Fatigue/Weakness/Asthenia

The data on methylphenidate for treating cancer-related fatigue have been mixed. While some trials have suggested a dose-dependent benefit of this agent on fatigue symptoms, the results have failed to produce positive results. Phase III randomized trials of modafinil for treating cancer-related fatigue suggested that modafinil had a modest efficacy and was most effective for those with severe fatigue. A Cochrane Database review summarized the existing data on psychosocial interventions for fatigue during palliative care for cancer. For more information, see the NCCN Guidelines for Cancer-Related Fatigue.

Sleep/Wake Disturbances Including Insomnia and Sedation

Patients with cancer often suffer from insomnia or daytime sedation. 302-304 In a study of 442 patients with advanced cancer, 330 (75%) patients were assessed as having baseline sleep disturbance as assessed by the Edmonton Symptom Assessment System (ESAS) sleep item. 305

The type and severity of sleep/wake disturbance should first be evaluated using, for example, the Epworth Sleepiness Scale.³⁰⁶ Primary sleep disorders, such as obstructive sleep apnea (OSA), restless legs



syndrome, and periodic limb movement disorder, should be treated with nocturnal continuous positive airway pressure (CPAP) or BiPAP.³⁰⁷ Restless legs syndrome, if present, can be treated with ropinirole, pramipexole with pregabalin, or carbidopa-levodopa.³⁰⁸⁻³¹⁶ Fears and anxiety regarding death and disease should be explored, and other contributing factors to sleep/wake disturbances should be treated, including pain, depression, anxiety, delirium, and nausea. CBT may be effective in treating sleep/wake disturbances in patients with cancer.^{182,317-321}

For refractory insomnia, recommended pharmacologic management options include the short-acting benzodiazepine lorazepam; the non-benzodiazepine zolpidem; antipsychotic medications such as chlorpromazine, quetiapine, and olanzapine; and sedating antidepressants such as trazodone and mirtazapine. The panel suggests that mirtazapine may be especially effective in patients with depression and anorexia. Benzodiazepines should be avoided in older patients and in patients with cognitive impairment, because they have been shown to cause decreased cognitive performance. Caution should be exercised when administering zolpidem due to the known risk of next-morning impairment.

For refractory daytime sedation, the guidelines suggest several options. The central nervous system stimulants methylphenidate or dextroamphetamine should be given. If the effect of the drug does not last through lunch, a second dose can be given at lunch, preferably no later than 2:00 PM. Doses can be escalated as needed.³²⁴ Another option for refractory daytime sedation is the psychostimulant modafinil, which has been approved in adults for excessive sleepiness associated with OSA/hypopnea syndrome (OSAHS), shift work sleep disorder, and narcolepsy.³²⁵ The panel also recommends caffeine and

dextroamphetamine as additional options for refractory daytime sedation. The last dose of caffeine should be given no later than 4:00 PM.

Dying patients should be assessed for their desire to have their insomnia or sedation treated. The doses of their existing pharmacologic therapies can be adjusted as appropriate.

Please also see the <u>NCCN Guidelines for Adult Cancer Pain</u> and the <u>NCCN Guidelines for Cancer-Related Fatigue</u> for their discussions on sleep/wake disturbances.

Delirium

Delirium should be evaluated for severity and cause using the Diagnostic and Statistical Manual of Mental Disorders, Fifth Edition (DSM-5) criteria. The Potentially reversible causes should be identified and treated appropriately. Delirium may present as either a hypoactive or a hyperactive subtype. Recent studies have suggested that hypoactive delirium was the most prevalent subtype in palliative care patients and that this condition is often underdiagnosed due to its presentation. Delirium-inducing medications (ie, steroids, anticholinergics, benzodiazepines) should be reduced or eliminated as much as possible. Non-pharmacologic interventions (eg, reorientation, cognitive stimulation, sleep hygiene) should be maximized before pharmacologic interventions are used. Caregivers should be supported in caring for their loved one and coping with this distressing condition.

Despite widespread use of antipsychotics for managing symptoms of delirium in palliative care, mixed evidence has been presented regarding use for delirium in patients with advanced cancer. In general, historical evidence supported the use of short-term, low-dose antipsychotics for managing symptoms of delirium with close monitoring for potential adverse effects. 332,333 Haloperidol is often used as a first-line agent, with alternative options such as olanzapine, risperidone, and quetiapine,



titrating dose to optimal effect with the lowest possible dose. 334-336 However, conflicting data have also been published. In recent studies of patients in palliative care or critically ill patients in the ICU, antipsychotics such as haloperidol, risperidone, and ziprasidone were ineffective at significantly reducing symptoms of delirium. 337,338 Additionally, in one trial, the cohort receiving placebo with supportive care had longer overall survival times than the cohort receiving haloperidol. 337

Benzodiazepines should not be used as initial treatment for delirium in patients not already taking them. However, benzodiazepines may be effective as an adjuvant to antipsychotics in the setting of persistent agitation, as demonstrated by a randomized controlled trial of lorazepam added to haloperidol for agitated delirium in patients with advanced cancer receiving palliative care. The presence of therapeutic levels of neuroleptics usually prevents the paradoxical excitation sometimes seen when delirious patients are given lorazepam. The dosages of these symptom-management medications should be titrated to optimal relief. Opioid dose reduction or rotation can also be considered for patients with severe delirium. RT can be considered for patients with delirium due to brain metastases; however, there are currently no data demonstrating improvement, and palliative efforts should be intensified with the awareness that delirium is a marker for "days not weeks" prognosis. 340-342

For the dying patient, the focus should shift to family/caregiver support and education. Medications that are no longer necessary should be discontinued, and dose reductions of all other medications should be considered, especially if dependent on hepatic/renal function. Under- or overtreatment of pain can exacerbate delirium, as can fecal impaction or distended bladder; these should be excluded as potential causes. Opioid rotation can be considered (see NCCN Guidelines for Adult Cancer Pain) if the delirium is believed to be caused by neurotoxicity of the current opioid. If delirium is a result of disease progression, palliative care should

be focused on symptom management and family support. Neuroleptic and benzodiazepine medications should have their dose increased and/or their route of administration changed to ensure adequate delirium symptom management.³⁴³ For refractory delirium in dying patients, palliative sedation can be considered following consultation with a palliative care specialist and/or psychiatrist (see below).

Please also see the <u>NCCN Guidelines for Distress Management</u> for further discussion of delirium in patients with cancer.

Psychosocial Distress - Social Support/Resource Management

For distress related to psychological or psychiatric complications and spiritual or existential crisis, please see the NCCN Guidelines for Distress Management.

For best outcomes, psychosocial care should be integrated into routine cancer care across all disease stages and in both the inpatient and outpatient settings.^{27,126,344,345} A systematic review of patients with advanced cancer identified psychosocial resources among the factors that promoted personal growth during the experience of cancer.³⁴⁶

For patients with estimated life expectancy ranging from years to months experiencing psychosocial distress, social support/resource management should be offered. Patient/family/caregiver(s)' coping and adjustment to the illness should be assessed, along with the safety of the environment and the availability of caregivers. In addition, it is important to ensure that the patient has adequate access to transportation and sufficient financial resources. Cultural issues, including the need for medical interpreters/translators unrelated to the patient, should be addressed. Support from social services (social worker, psychologist, and/or psychiatrist) may also be appropriate for the patient as well as caregivers and family members, and should be provided in the form of counseling, child life services, and art and music therapy (if available). 347-349 Personal,



spiritual, or cultural issues related to the patient's illness and prognosis should be addressed.³⁵⁰ Bereavement risk and risk for persistent complex bereavement disorder should be assessed.

In a dying patient with an estimated life expectancy of weeks to days, the patient's desires for comfort should be evaluated and supported. The process of dying and the expected events should be explained to the patient, family, and caregivers. Risk for persistent complex bereavement disorder should be reassessed. Patients and family members should be provided with emotional support to address any intra-family conflict regarding palliative care interventions. Eligibility, readiness, and need for specialized palliative/hospice care should be determined.

Palliative Care Reassessment

All patients should be reassessed regularly, and effective communication and information sharing must exist between the patient, caregivers, and health care providers. Patients and family members benefit most from ongoing discussions about the natural history of the disease and prognosis in clear, consistent language. The outcome measures for these guidelines are much more difficult to define than that for disease-specific NCCN Guidelines. The panel reviewed end-of-life care outcomes from several surveys of North American citizens. 351-354 The panel chose a modified version of Singer's outcomes until more precise outcome measures are available. Acceptable palliative care should provide the following: 1) adequate symptom management; 2) reduction of patient/family/caregiver distress; 3) acceptable sense of control; 4) decreased caregiver burden; 5) strengthened relationships; 6) optimized quality of life, personal growth, and enhanced meaning; and 7) advanced care planning in progress.

If the interventions are unacceptable upon reassessment, the oncology or palliative care team should reevaluate intervention options and intensify as possible. The panel also recommends promoting adaptive coping strategies. The oncology team should also consult specialized palliative care services, hospice, or an ethics committee. Consultation with a mental health professional and/or addiction specialist to evaluate and treat undiagnosed psychiatric disorders, and substance abuse disorders should be considered. If psychosocial distress persists, palliative care options should be intensified, and the patients should be managed according to the NCCN Guidelines for Distress Management.

Patients' treatment goals and expectations may change and evolve as disease progresses. Reassessment should be ongoing, with continuation or modification of life-expectancy–guided palliative care until the patient's death or survivorship.

End-of-Life Care Issues

Preparing Patients/Families/Caregivers for End-of-Life and Transition to Hospice Care

A multicenter survey of acute care hospitals revealed discordance between patients' stated values and corresponding treatment preferences for end-of-life care. The study highlighted the need for medical decision support to ensure that patient preferences were grounded in a clear understanding of their illness and end-of-life treatment options. Specialty palliative care consultation should be considered to assist in conflict resolution when the patient, family, and/or medical professional team do not agree on the benefit/efficacy of interventions.

For patients with an estimated life expectancy of years or years to months, health care professionals should engage in clear, consistent discussion with the patient, family, and caregiver(s) about prognosis and anticipated care needs on an ongoing basis. Advance care planning should be initiated, along with an assessment of decision-making capacity and the need to identify a surrogate decision maker. Providers should elicit values



and preferences with respect to quality of life and determine need for specialized palliative care or eligibility and readiness for hospice care. When the patient's functional status indicates a 6- to 12-month prognosis, a dedicated "hospice information" visit with the oncologist may ease transition to hospice care in the future by preparing the patient, family, and caregiver(s), and reassuring them that their oncologist can remain involved.

For patients with an estimated life expectancy of months to weeks or weeks to days, the oncology team should assess patient/family/caregiver understanding of the dying process and provide education as needed. Providers should address potential need for transitions in care while ensuring continued involvement of the primary care physician and primary oncology team. Referrals should be made to hospice care agencies, as well as for psychosocial assessment, legacy work, grief counseling, spiritual assessment, and funeral/memorial service planning, as necessary. The goals and needs of the patient and family regarding the dying process should be respected.

Dying patients may wish to prepare for death and to help prepare family members to go on without them. Both patients and families benefit from education on the dying process. Families should be guided through their anticipatory grief, and arrangements should be made to ensure that the patient, family, and caregiver needs and goals regarding the dying process are respected. Planning to ensure continuing care and referrals to appropriate care is important. Arrangements should be available to ensure that the patient does not die alone unless that is the patient's preference.

Requests for Hastened Death or Medical Aid in Dying

The most appropriate initial response to a request for hastened death or medical aid in dying (MAID) is to explore the meanings behind that request and intensify palliative care interventions.³⁵⁷ The AAHPM has released a

position statement and advisory brief regarding this topic with guidance for health care professionals on how to evaluate and respond to these requests. 358,359 The panel recommends that patients requesting hastened death should be referred to a palliative care specialist. Open exploration of the patient's request for hastened death may identify unmet needs and new palliative care interventions that may be helpful. 357,360 Concerns related to the withdrawal of life-sustaining treatment, voluntary cessation of eating and drinking, and/or sedation should be discussed with patients and families. Psychiatric consultation to evaluate and treat reversible causes of psychological suffering should be considered. Patients should be assured that their health care team is committed to providing continuing care. Although MAID, under specified conditions, is legal in California, Colorado, Hawaii, Maine, Montana, New Jersey, Oregon, Vermont, Washington, and Washington, D.C, euthanasia is not legal in any of the United States. 357,361-366 It is important for physicians to know the local legal status of MAID, as other states have pending legislation regarding either prohibiting or permitting MAID. 357 Several organizations have released position statements and/or helpful websites on the issue of MAID (see Table 1 on MS-30).

Care of the Imminently Dying Hospitalized Patient

An imminently dying patient is defined as one within hours of death who is not stable enough for transport.³⁶⁷ Caring for an imminently dying patient is intense for the patient, family, caregiver(s), and health care team. An international qualitative study described many of the common non-pharmacologic palliative care activities provided in the last days of life.³⁶⁸ An end-of-life care order set that includes physical, practical, and psychosocial interventions may be beneficial for practitioners to use for imminently dying patients. If not already done, obtaining a hospice evaluation may also be helpful.



The physical aspects of care for an imminently dying patient focus on adequate symptom management and comfort, keeping in mind the patient's wishes and values. Approaches may include intensifying comfort care; discontinuation of unnecessary diagnostic tests and interventions; deactivation of implanted devices as indicated; alternate routes of medication administration if the oral route is not feasible; and managing terminal secretions, delirium, and dyspnea. Palliative sedation can be considered for refractory restlessness and agitation. ^{200,369,370} It is also important to be prepared for patient and family requests for autopsy and/or organ donation.

The psychosocial aspects of care for an imminently dying patient consider individual and family goals, preferences, cultures, and religious beliefs. Open communication should occur between the patient, family, caregiver(s), and care team regarding the physical and psychological aspects of the dying process and the importance of honoring any advance directives. The care plan may also include consultation with social workers or chaplains to meet social and spiritual needs; counseling to promote healthy grieving; support for children/grandchildren; and education for parents on age-appropriate grieving processes.

The practical aspects of care for an imminently dying patient in the hospital include mobilizing in-hospital end-of-life care policy and procedures; ensuring that the patient's advance directive is documented and implemented; securing a private room for the patient; and enabling family presence around-the-clock. If not already done, patient/family/caregiver wishes for resuscitation should be discussed and documented. In this context, CPR is unlikely to be effective; providers should recommend other options for resuscitation such as "Do Not Resuscitate" (DNR), "Do Not Attempt Resuscitation" (DNAR), and "Allow Natural Death" (AND) orders and promote comfort care. Providers should be aware that policies regarding resuscitation may differ based on

treatment setting. A patient with a documented inpatient DNAR order may also require DNAR orders for out-of-hospital settings (eg, residential care, ambulance transport). In states where the MOLST/POLST has been established, it is important to complete this document, as it will protect the patient's wishes across all treatment settings. If in-person visits are restricted or not possible, facilitate virtual visits.

Palliative Sedation

Palliative sedation may be considered for imminently dying patients (life expectancy of hours to days) with refractory symptoms that persist despite comprehensive, interprofessional palliative care. Palliative sedation to unconsciousness, in which the intended effect is deep sedation, remains controversial.^{371,372} The panel recommends referring to institutional guidelines/policy for additional guidance.

If palliative sedation is being considered, a prognosis of imminent death should be confirmed. Informed consent must be obtained from the patient and/or a surrogate or family member following discussions of the patient's disease status, treatment goals, prognosis, and expected outcomes. Consent for palliative sedation must be accompanied by consent for discontinuation of life-prolonging therapies (such as artificial hydration/nutrition) and withholding of cardiopulmonary resuscitation, as these therapies would only serve to increase suffering in this case.

Palliative sedation has its ethical justification in the Doctrine of Double Effect, ³⁷³⁻³⁷⁸ which provides guidance in situations where an attempt to do good also produces harm (eg, providing medication for the relief of suffering that also causes respiratory depression). Several studies have investigated whether palliative sedation shortens survival. Results obtained from systematic reviews did not reveal a clear impact of palliative sedation on survival time, although many of the included studies lacked high-quality data. ^{379,380} A large prospective study in 2426 patients with



advanced cancer provided additional evidence that continuous deep sedation provided by palliative care specialists did not significantly shorten survival time. ³⁸¹ Prior to initiating palliative sedation, an ethics consult should be considered in accordance with institutional guidelines and state/national regulations. ³⁷²

Palliative sedation is best performed by palliative care experts.³⁸² The most common sedatives used for palliative sedation are midazolam, lorazepam, and propofol by parenteral infusions.³⁷⁶ Some studies have suggested that palliative sedation may also be feasible in the home setting and could be utilized in patients who wish to die at home.^{383,384}

A Peaceful Death

These NCCN Guidelines are the first to include death as an expected outcome and after-death care for the family as an essential part of the continuum of cancer care. Many studies have attempted to define a "good death" or a "peaceful death" from the perspective of clinicians, patients, and families. 385-388 Interestingly, one study found that patients, families, and physicians had very similar ideas of what constitutes a peaceful death: freedom from pain, being at spiritual peace, and being with family ranking among the top three considerations by all three groups. 888 End-of-life care should be flexible enough to ensure that the death is viewed as a peaceful death by those involved. The definition of a "peaceful death" used by the NCCN Palliative Care Panel is "one that is free from avoidable distress and suffering for patients, families, and caregivers; in general accord with patient's and family's wishes; and consistent with clinical, cultural, and ethical standards. 389

Final results of the prospective, longitudinal cohort Coping With Cancer study of 396 patients with advanced cancer and their caregivers were recently reported. The study found a higher quality of life in the last weeks of life in patients who avoided visits to the ICU and feeding tubes, did not

die in the hospital, worried less, prayed or meditated, were visited by a pastor in the hospital or clinic, and felt a strong therapeutic alliance with their physicians.¹⁵⁹

After-Death Care Interventions

Comprehensive palliative care for the patient's family and caregivers continues after the patient's death. Immediate issues include informing the family (if not present), offering condolences, and providing family time with the body. Chaplain or other spiritual leader involvement to assess family's desire for religious ritual or spiritual support may be helpful. Additional concerns include ensuring culturally sensitive and respectful treatment of the body, including removal of tubes, drains, lines, and the Foley catheter (unless an autopsy is planned); addressing concerns about organ donation or autopsy; facilitating funeral arrangements through completion of necessary paperwork; and informing insurance companies and other health care professionals of the patient's death.

Bereavement support should be offered, beginning with a personal visit or telephone call from the patient's primary oncology team, followed by a condolence letter. Family members at risk for complicated grief should be identified and offered support and treatment. Children of patients with cancer represent a uniquely at-risk population for psychosocial dysfunction. Additionally, a study suggested that certain predictors of prolonged grief could be identified in family caregivers at the time of the patient's entry to palliative care; these factors include severity of pre-death symptoms; condition of the caregiver's relationship to the patient; impact of caregiving duties on the caregiver's schedule; quality of family functioning; and level of optimism, especially if low. Septimental symptoms

Bereavement care is often best provided by an experienced hospice team or a skilled mental health care professional. The family may request a debriefing meeting from the medical team and may require assistance in



identifying community bereavement resources. A well-supported end-of-life care experience will facilitate the family's acceptance of appropriate referrals for cancer risk assessment and risk modification. If not already recommended, providers should direct family members towards genetic screening, especially if the deceased patient was positive for known genetic markers that confer risk. For more information, see the NCCN Guidelines for Genetic/Familial High-Risk Assessment: Breast, Ovarian, and Pancreatic and Genetic/Familial High-Risk Assessment: Colorectal.

Putting Palliative Care Guidelines into Practice

Institutions should develop processes for integrating palliative care into cancer care, both as part of usual oncology care and for patients with specialty palliative care needs. Many approaches to this have been described, but there is no single best practice.^{18-26,394}

Patients and families should be informed that palliative care is an integral part of their comprehensive cancer care. Educational programs should be provided to all health care professionals and trainees so that they can develop effective palliative care knowledge, skills, and attitudes. Skilled palliative care specialists and interprofessional palliative care teams, including board-certified palliative care physicians and advanced practice providers, should be readily available to provide consultative or direct care to patients and families who request or require the expertise. Finally, the quality of palliative care should be monitored by institutional quality improvement programs.

The experiences of patients with cancer begin with the diagnosis, and many palliative care questions should be considered early in the comprehensive cancer care plan. As the cancer progresses and the value of further anticancer therapy diminishes, palliative measures should be intensified. Clear and consistent discussion of goals, values, preferences,

prognostic information, and therapeutic options can help patients, families, and providers make appropriate decisions in a shared manner.

Undergoing anticancer therapy should not preclude addressing end-of-life issues. Collaborating with palliative care experts on such matters extends oncologists' therapeutic repertoire and diminishes the stress of caring for patients who have incurable disease. Increasing emphasis on palliative care in oncology should improve patient outcomes and provide new avenues for clinical research and professional satisfaction. Timely introduction of members of the institutional or community palliative care team allows patients to meet the individuals who will help them and their families through their experience. Because the diagnosis of cancer and impending death is such a frightening experience, oncologists must work to alleviate those fears by assuring patients that the members of the oncology and palliative care teams will work with them and their families regardless of what happens. Additionally, oncologists must discuss prognosis with both the family and the palliative care team in order to anticipate and manage concerns commonly associated with the diagnosis and treatment of cancer.

As the disease progresses, many patients and families need help coping with the implications of increasing disease burden. Some patients and families have great difficulty accepting a poor prognosis and, as a result, do not engage in advance care planning. This may be a sign of imperfect understanding of the disease and should be addressed directly and compassionately. Palliative care supports ongoing education to help patients and families better understand and prepare for disease progression.

Oncologists should encourage advance care planning early in the disease trajectory in order to create a care plan that is consistent with the patients' wishes. In addition, advance care planning can lessen the burden of making difficult end-of-life decisions. The combined efforts of the oncology



team and the hospice/palliative care team can improve the overall outcome for patients and their families.

Psychosocial Support for Oncology and Palliative Care Providers

After the loss of a patient, psychosocial support should be available for providers who have been involved in the patient's care. A bereavement or memorial ritual, such as a brief reading or moment of quiet, can be considered. Funeral attendance by health care professionals may also be considered. Health care professionals should review medical issues related to patient death, explore concerns and questions about quality of patient care, and review emotional responses of family and staff to the patient's death.

Oncology and palliative care teams commonly encounter patient loss and deal with grief, and over time the resultant emotional distress can lead to compromised resilience, including provider burnout, intra-team conflicts or disagreements, compassion fatigue, and ethical concerns or moral distress. 397-401 These syndromes can manifest as symptoms of depression, anxiety, fatigue, and low mental quality of life. 402 Personnel experiencing such symptoms should be identified and assisted. Considerable research has been dedicated to evaluating patterns of patient, family, and caregiver grief, and interventions to mediate this distress. Far less attention has been devoted to similar issues among health care providers and teams; further research is needed. For a summary of the literature on compassion fatigue and burnout among oncology providers, see reviews by Najjar and colleagues, 397 Shanafelt and Dyrbye, 402 and Sherman and colleagues. 403

Although limited in quantity, most studies on compassion fatigue are derived from the oncology nursing literature. A large survey of hospice and palliative care providers (ie, clinical, administrative, allied health workers) revealed a strong correlation between burnout and compassion fatigue,

and revealed the need for enhanced support of individuals in this field. 404 Additionally, a cross-sectional survey of nurses, medical assistants, and radiology technicians at a comprehensive cancer center revealed concerning levels of burnout and compassion fatigue in both inpatient and outpatient care settings. 405 A resiliency program was piloted and eventually scaled hospital-wide to educate providers on these issues and provide interventional strategies. Improvements in burnout and secondary traumatic stress were observed. 405,406 Several studies from the Mayo Clinic demonstrated that mindfulness training through the Stress Management and Resiliency Training (SMART) program was able to improve anxiety, stress, quality of life, and mindfulness among providers. 407-409 A recent meta-analysis of efficacy data on meditative interventions for health professionals demonstrated a small to moderate benefit according to measures of emotional exhaustion (effect size 0.37, 95% CI, 0.04–0.70), sense of personal accomplishment (effect size 1.18, 95% CI, 0.10–2.25), and life satisfaction (effect size 0.48, 95% CI, 0.15-0.81).410

Qualitative research on compassion fatigue interventions reveals that oncology clinicians rated the following resources as helpful: educational interventions, support programs or resources in the workplace, retreats, and self-care measures.^{397,411} Unfortunately, despite the reported desire for such interventions, access can be limited. In a nationwide survey of oncology nurses, only 60% of survey respondents reported access to an employee assistance program, 45% reported no offerings of education addressing workplace coping, and 82% of respondents reported no off-site programs such as retreats.⁴¹¹

Generally, evidence-based interventions for compassion fatigue, moral distress, and burnout in physicians are lacking. When asked to provide useful preventative measures and coping strategies, palliative care specialists recommended emphasizing the rewarding aspects of their work and strategies for "enhanced meaning-making." Experts in the field have



also highlighted the importance of self-awareness and self-care measures for oncologists and palliative care specialists to decrease levels of compassion fatigue. To this end, self-care was established as a core competency area for fellows in hospice and palliative medicine. Examples and evidence for additional preventative strategies and solutions for oncologist burnout have been reviewed by Shanafelt and Dyrbye.

Conclusion

These guidelines are intended to help oncology teams incorporate palliative care into their practice and thereby provide the best and most comprehensive cancer treatment possible for patients with incurable cancer. Patients with advanced disease may be overly optimistic about their chances of cure and survival, and this can have a negative effect on their quality of life. One study found that those who overestimated their survival were more likely to die a bad death. 94 Using a decision aid, Smith et al found that most patients want honest information, even if it is bad news.414 Although use of the decision aid typically took 20 minutes and was challenging for oncologists, it did not cause patients to give up hope or become distressed. Physician-led discussion of disease progression and death can improve quality of care and quality of life for both patients and families. 415 Providing information in a collaborative manner protects the autonomy of patients to make informed decisions based on potential treatment outcomes. 416 Palliative care can help patients and families set realistic expectations and meet short- and longer-term goals, such as important life-cycle events. Much of the care outlined in these guidelines is geared toward a different hope than that for cure of the disease itself. 102,414,417 Even when cure is no longer possible, hope remains: hope for dignity, comfort, and closure and for growth at the end of life. It is our hope that these guidelines will help oncology and palliative care professionals together create a better future for patients, families, and providers.



Table 1: Palliative Care Internet Resources for Clinicians^a Palliative Care Clinical Competencies

www.epec.net

Education in Palliative and End-of-life Care (EPEC): Comprehensive curriculum covering fundamentals of palliative medicine; teaching guides

www.StopPain.org

Department of Pain Medicine and Palliative Care at Beth Israel Medical Center: Online education for physicians, nurses, and pharmacists

Clinical, Educational, Professional, and Public Resources

www.palliativedrugs.com

Palliativedrugs.com: Extensive information on pharmacologic symptom management

www.aahpm.org

American Academy of Hospice and Palliative Medicine: Physician membership organization; board review courses; publications

www.abim.org

The American Board of Internal Medicine: Physician Board Certification

www.nhpco.org/

National Hospice and Palliative Care Organization: Nonprofit membership organization representing hospice and palliative care programs and professionals in the United States

www.hpna.org/

Hospice & Palliative Nurses Association: Specialty nursing organization with evidence-based educational tools for the nursing team

pallcare.hms.harvard.edu/

Center for Palliative Care at Harvard Medical School: Faculty development courses, other educational programs

www.nationalconsensusproject.org/

National Consensus Project for Quality Palliative Care: Clinical practice guidelines

www.americangeriatrics.org/

American Geriatrics Society: Clinical guidelines and continuing education

www.cancerpatienteducation.org

Cancer Patient Education Network (CPEN): Health care professional organization for sharing experiences and best practices in all aspects of cancer patient education

Palliative Care Program Development

www.capc.org

Center to Advance Palliative Care: Technical assistance for clinicians and hospitals seeking to establish or strengthen a palliative care program

www.capc.org/palliative-care-leadership-centers/

Palliative Care Leadership Centers: Eight exemplary palliative care programs providing site visits, hands-on training, and technical assistance to support new palliative care clinicians and programs nationwide

Physician-Assisted Dying

Statement on Physician-Assisted Dying approved by the AAHPM Board of Directors on June 24, 2016: http://aahpm.org/positions/pad

Adapted with permission from Meier DE. Improving Palliative and Supportive Care in Cancer Patients. Oncology 2005;19(10).

^a All websites accessed January 2019.



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