

Palliative Cancer Care a Decade Later: Accomplishments, the Need, Next Steps—From the American Society of Clinical Oncology

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Purpose

In 1998, the American Society of Clinical Oncology (ASCO) published a special article regarding palliative care and companion recommendations. Herein we summarize the major accomplishments of ASCO regarding palliative cancer and highlight current needs and make recommendations to realize the Society's vision of comprehensive cancer care by 2020.

Methods

ASCO convened a task force of palliative care experts to assess the state of palliative cancer care in the Society's programs. We reviewed accomplishments, assessed current needs, and developed a definition of palliative cancer. Senior ASCO members and the Board of Directors reviewed and endorsed this article for submission to *Journal of Clinical Oncology*.

Results

Palliative cancer care is the integration into cancer care of therapies that address the multiple issues that cause suffering for patients and their families and impact their life quality. Effective provision of palliative cancer care requires an interdisciplinary team that can provide care in all patient settings, including outpatient clinics, acute and long-term care facilities, and private homes. Changes in current policy, drug availability, and education are necessary for the integration of palliative care throughout the experience of cancer, for the achievement of quality improvement initiatives, and for effective palliative cancer care research.

Conclusion

The need for palliative cancer care is greater than ever notwithstanding the strides made over the last decade. Further efforts are needed to realize the integration of palliative care in the model and vision of comprehensive cancer care by 2020.

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INTRODUCTION

In 1998, the American Society of Clinical Oncology (ASCO) published the special article "Cancer Care at the End of Life"¹ and a companion article "Consensus Statement of Recommendations for High-Quality Cancer Care Developed by the American Federation of Clinical Oncologic Societies".² In the succeeding 10 years, remarkable progress has been made to overcome the barriers to the integration of palliative care into cancer care, to increase knowledge and skills, and to improve the experience of patients and families.

This article summarizes the major accomplishments of ASCO, its members, and other stakeholders during the past decade. It then highlights the need for palliative care in 2008 and presents recommendations for next steps for ASCO and its mem-

bers to realize ASCO's vision of comprehensive cancer care by 2020.

METHODS

To develop these recommendations, leaders in the palliative care of patients with cancer from around the world were convened by ASCO to provide an assessment and expert opinion to the Society regarding the state of palliative cancer care. They were asked to recommend next steps to facilitate the development of comprehensive cancer care that incorporates palliative care. Review of the literature, online resources, and related documents and program materials contributed to an interactive Delphi process. These activities led to a unanimous consensus regarding the need for this updated article, definitions of palliative cancer care, and recommendations for next steps.

Senior ASCO members were asked to review and comment on the recommendations. The ASCO

Board then reviewed and agreed to the recommendations and this article.

Accomplishments

The significant accomplishments of ASCO, its members, and other stakeholders since the publication of the special article “Cancer Care at the End of Life” in 1998 follow.

Clinical accomplishments. ASCO, at that time, concluded that the “provision of optimal end-of-life-care requires access to and the availability of state-of-the-art palliative care rendered by skilled clinicians, buttressed when necessary, by palliative care experts.”¹¹

ASCO recognized “that hospice is a widely available and excellent model for managing end-of-life care and should be better utilized.”¹¹ While this remains true, the provision of palliative care has expanded from a focus on end-of-life care to a comprehensive model of care in which palliative care is integrated throughout the illness experience.

Advocacy and policy statements. Since 1997, numerous organizations issued statements advocating for palliative care to be a part of comprehensive cancer care. In the United States, the Institute of Medicine [IOM] published a series of documents characterizing the role of palliative cancer care within comprehensive cancer care (Table 1).³⁻⁹ Internationally, the WHO as well as the International Narcotics Control Board and other agencies advocated for palliative care as an integral part of cancer care.¹⁰⁻¹⁵

In 2005, the 58th World Health Assembly fully integrated palliative care into its resolution WHA58.22 to improve *Cancer Prevention and Control*.¹⁶ This resolution recognized palliative care as an essential component of comprehensive cancer care, equal to medical, surgical, and radiation oncology and urged member nations to fully integrate palliative care into their national cancer control programs.

In 2006, the ASCO Board of Directors approved an ASCO-European Society of Medical Oncology (ESMO) Consensus Statement on Quality Cancer Care. This 10-point statement listed common goals to ensure access to, and the continuity of, high-quality cancer care. It included pain management, supportive, and palliative care.¹⁷

Integration of palliative care. Over the past 10 years, ASCO members have developed several innovative models integrating palliative care into cancer care. As an example, the University of Texas M. D. Anderson Cancer Center (Houston, TX) has been integrating palliative care into its outpatient and inpatient services.^{18,19} Across the United States, institutions have begun to formally integrate palliative care in their oncology programs and some large community practices are also hiring palliative care physicians to enhance their services. This activity is mirrored by many programs worldwide.

Use of hospice services. ASCO’s special article “recognized hospice as a widely available, but underutilized, excellent model for delivering end of life care”.¹ Since 1998, the use of hospice services in the United States has more than doubled, from 540,000 patients served in 1998 to 1,300,000 in 2006.²⁰ Although there has been an overall increase in the use of hospice services, ASCO has not actively pursued strategies that would increase acceptance and lead to earlier referral to afford patients and families optimal value from the Medicare Hospice Benefit and other hospice-related health care coverage.

Table 1. Institute of Medicine Statements Advocating Palliative Care As Part of Comprehensive Cancer Care 1997 to 2007

Year	Statement
1997	Approaching Death: Improving Care at the End of Life ³
1999	Ensuring Quality Cancer Care ⁴
2000	Enhancing Data Systems to Improve the Quality of Cancer Care ⁵
2001	Improving Palliative Care for Cancer ⁶
2001	Improving Palliative Care for Cancer: Summary and Recommendation ⁷
2007	Cancer Control Opportunities in Low-and Middle-Income Countries ⁸
2007	Cancer Care for the Whole Patient: Meeting Psychosocial Health Needs ⁹

Development of standards, guidelines, and quality improvement strategies. Before its 1998 special article, ASCO published and disseminated guidelines on cancer pain assessment and treatment (1992)²¹ and the use of hematopoietic colony-stimulating factors (1994).²² Throughout the past decade, ASCO has published seminal guidelines related to palliative care (Table 2).²³⁻³¹

To foster the integration of palliative care into oncology practice, ASCO has already incorporated several of the measures outlined in the National Quality Forum’s *Preferred Practices for Palliative and Hospice Care* (2006) into its Quality Oncology Practice Initiative (QOPI).^{32,33}

To encourage the integration of palliative care into cancer centers, ESMO has promoted standards for palliative care and provided awards for outstanding performance.^{34,35} WHO and the National Comprehensive Cancer Network (NCCN) have developed consensus-based guidelines on palliative care,^{36,37} and the NCCN has developed guidelines in several specific areas of supportive care that are available on its Web site.³⁸

To promote the appropriate use of controlled substances in the management of chronic cancer and noncancer pain, the Federation of State Medical Boards developed a *Model Policy for the Use of Controlled Substances for the Treatment of Pain* in 2004.³⁹

Educational accomplishments. Even in 1998, ASCO believed “that educational initiatives directed at optimizing the physician’s clinical and psychological skills in delivering end-of-life care are essential and must be directed at the medical students, pediatric and medical residents, oncology trainees from all disciplines, practicing oncologists, and allied members of the health care team.”¹¹

In 1998, ASCO surveyed its members and learned that 90% of the 3,227 medical, surgical, radiation, and pediatric oncologists who responded learned about palliative care through trial and error and 38% said a significant source of education was a traumatic experience with a patient.^{40,41} These findings are not surprising, given that 81% of the respondents said they had inadequate mentoring or coaching in discussing poor prognosis; 65% said they received inadequate education about controlling symptoms; 33% reported hearing lectures about palliative care issues during oncology fellowship training; and 10% reported completing a rotation on a palliative care service or hospice.

Subsequently, over the past decade, ASCO has worked to incorporate palliative care into its educational resources and activities.

Educational resources. In 2001, ASCO published the curriculum *Optimizing Cancer Care: The Importance of Symptom Management*.^{42,43} This educational resource was developed for use in oncology training programs as well as for continuing medical education; patient education materials based on this curriculum are also available.⁴⁴

In 2004, ASCO developed *Oncology MKSAP*, a self-study tool consisting of 19 chapters, one of which was devoted to supportive care.⁴⁵ The Society followed up this resource with *ASCO-SEP: Medical Oncology Self-Evaluation Program*, which provides information on assessing and mitigating potential symptoms that negatively affect quality of life.⁴⁶

Table 2. American Society of Clinical Oncology Guidelines Relating to Palliative Care 1999 to 2007

Year	Guideline
1999	Recommendations for the Use of Antiemetics ²³
1999	Use of Chemotherapy and Radiotherapy Protectants ²⁴
2001	Platelet Transfusion for Patients with Cancer ²⁵
2003	Update on the Role of Bisphosphonates and Bone Health Issues in Women With Breast Cancer ²⁶
2003	Treatment of Unresectable Non-Small-Cell Lung Cancer Guideline ²⁷
2006	Use of Larynx-Preservation Strategies in the Treatment of Laryngeal Cancer ²⁸
2007	Update on the Role of Bisphosphonates in Multiple Myeloma ²⁹
2007	Update on the Role of Bisphosphonates in Multiple Myeloma ³⁰
2007	Endorsement of the Cancer Care Ontario Practice Guideline on Nonhormonal Therapy for Men With Metastatic Hormone-Refractory (castration-resistant) Prostate Cancer ³¹

In 2005, ASCO published in the *Journal of Clinical Oncology* (JCO) the second edition of the ASCO Core Curriculum Outline (ACCO),⁴⁷ a framework for training medical oncologists, which includes the integral topics in palliative care and psychosocial issues related to cancer.

In 2005, ASCO supported the launch of the Education in Palliative and End-of-life Care for Oncology (EPEC-Oncology) Curriculum in collaboration with the National Cancer Institute (NCI), The EPEC Project, and the Lance Armstrong Foundation.⁴⁰ This comprehensive curriculum is available free from NCI with continuing medical and nursing education credits provided by ASCO⁴⁸ and is available for self-study online from the EPEC-Project.⁴⁹ From October 1, 2006, through March 31, 2007, more than 20,000 health professionals (6,438 physicians and 12,392 nurses/advance practice nurses) reviewed the Last Hours of Living module and completed the evaluation for continuing education credits.⁵⁰ In its first 3 months that the module on Withdrawing Nutrition and Hydration was online in early 2008, more than 10,885 people, including 1,352 physicians, completed the continuing education activity for credit.⁵¹

ASCO meetings. The ASCO Annual Meeting, which serves more than 30,000 attendees each year, regularly incorporates palliative care sessions into both the education and research tracks. As an example, a 2002 education session on advanced laryngeal cancer included a presentation by a palliative care expert. Programs highlighting palliative cancer care presented as part of the Annual Meeting are displayed in Table 3. Education and scientific sessions from the Annual Meeting are also available in the ASCO Virtual Meeting section of ASCO.org and as enduring materials in the *Educational Book* from each Annual Meeting.^{52,53}

Nationally. Recognizing the burden of adverse effects of cancer and its treatment, ASCO cosponsored a 1-day symposium with the IOM to disseminate the conclusions and recommendations of the IOM report, "From Cancer Patient to Cancer Survivor: Lost in Transition."⁵⁴ The symposium highlighted the short- and long-term impairments suffered by cancer survivors—physical, psychological, and functional—and their impact on quality of life. Furthermore, ASCO convened a Survivorship Task Force committed to integrating survivorship concerns into all of ASCO's scientific and educational activities. Evidence-based guidelines, focused on palliative care issues important to survivors, have been published (fertility preservation,⁵⁵ cardiac and pulmonary late effects of adult cancer survivors⁵⁶) and others are planned. In collaboration with the National Coalition for Cancer Survivorship, ASCO is working to improve the quality and the delivery of care for survivors.

Internationally, ASCO has partnered with national cancer societies in other countries (eg, Egypt, Spain, and Latin America) to present courses that both incorporate and feature palliative cancer care. For example, the Multidisciplinary Cancer Management Courses includes a module on end-of-life care.

Publications. Since its inception as ASCO's official journal (1983), more than 700 articles related to palliative care have been published in *Journal of Clinical Oncology* (JCO; Appendix Table A1, online only). In 1999, JCO focused a *Classic Papers and Current Comments* issue on supportive care. In 2000, *The Art of Oncology—When the Tumor Is Not the Target* debuted as a monthly feature. A decade later, JCO has published another special review series issue on improving the quality of supportive cancer care (August 10, 2008, volume 26, issue 23).

There are now more than 10 specialty journals focused only on palliative care that routinely publish articles related to palliative care and cancer, and many ASCO members have written editorials in these journals to describe and justify the need for research and articles in this field.⁵⁷⁻⁶²

Fellowship training. While ASCO has not yet advocated for palliative care to be a component of oncology fellowship training, ASCO's yearly in-training exam for oncology fellows, launched in 2008, includes questions about palliative care.

The American Board of Internal Medicine advocates for inclusion of palliative care as a component of internal medicine training, including medical oncology. As of 2008, 7% of the questions on the medical oncology certification examination are related to supportive care and ethics.⁶³

In the scope of radiation oncology practice, American Society of Therapeutic Radiology and Oncology strongly supports the need for expertise in palliative care, given that nearly half of patients treated with radiotherapy receive treatment with palliative intent.⁶⁴

Recognition of palliative medicine as a specialty. Palliative care has been formally recognized as a medical specialty in Australia, Ireland, the United Kingdom, and the United States.^{65,66}

In 2006, 10 of 24 boards of the American Board of Medical Specialties unanimously cosponsored the new specialty of Hospice & Palliative Medicine, including Anesthesiology, Family Medicine, Internal Medicine (including Hematology and Medical Oncology), Emergency Medicine, Pediatrics (including Pediatric Oncology), Radiology (including Radiation Oncology), Surgery (including Surgical Oncology), OB-GYN (including gynecologic oncology), Psychiatry/Neurology, Physical Medicine and Rehabilitation (including Cancer Rehabilitation).⁶⁷ This historical precedent explicitly acknowledges that the unique knowledge and skills of palliative care are shared by each of these disciplines.

Research accomplishments. In 1998, the ASCO special article outlined a research agenda calling for "Research on the Physical, Psychological, and Socioeconomic Problems That Are Presented by the Terminal Phases of Illness."¹

Even then, ASCO believed "that clinical decisions based on reliable evidence represent the most practical way to assure high-quality and compassionate end-of-life initiatives on outcomes, predictors and interventions during the end phase of terminal illness, including"¹: pain and other physical symptoms; depression and other mental health symptoms; spirituality and existential meaning; communication; caregiving burdens; and economic burdens.

Over the past 10 years, a range of new oncology drugs and therapies aimed at symptom control have come to market. The majority of the research and development of these products have been funded by industry. Fewer than 3% of all National Institutes of Health (NIH) funding has been directed toward palliative care research.

For many years, ASCO has incorporated a patient care track into the ASCO Annual Meeting for the presentation of clinical trials and research related to palliative and supportive care in the broadest sense. Since 1998, ASCO has given a number of Career Development Awards and Young Investigator Awards to junior researchers investigating palliative care topics. A review of the 130 Career Development Awards topics funded since 1992 revealed that approximately 8% related to palliative care issues.

Need for Palliative Care

An aging population with its associated growing incidence and prevalence of cancer makes palliative care a public health issue as well as a cancer care issue. Each year, 10 million people worldwide are diagnosed with cancer and 6 million die from the disease. Global cancer rates will increase by 50%, from 10 million in 2002 to 15 million cases in 2020. In the developed world, this increase in incidence has been accompanied by a dramatic increase in the number of cancer survivors who live with treatment and cancer-related disabilities and symptoms. Fifty percent of the world's new cancer cases occur in developing countries; in 80% of these cases, disease is incurable at the time of diagnosis and most patients will die within 1 year. More than one half of the 600 million individuals older than 60 years live in developing countries. By 2020, the proportion of the population over 60 years will be 23% in Europe and North America.

Table 3. ASCO Annual Meeting: Palliative Care Programs

Meeting	Program Name
ASCO Presidential symposium	End-of-Life Care
Karnofsky lecture	Cancer Pain: The Science, Politics and Ethics
Symposia	Optimizing Cancer Care
MASCC/ASCO symposium	Progress and Issues in Supportive Care
Special sessions	Patient-Physician Communication

Abbreviations: ASCO, American Society of Clinical Oncology; MASCC, Multinational Association of Supportive Care in Cancer.

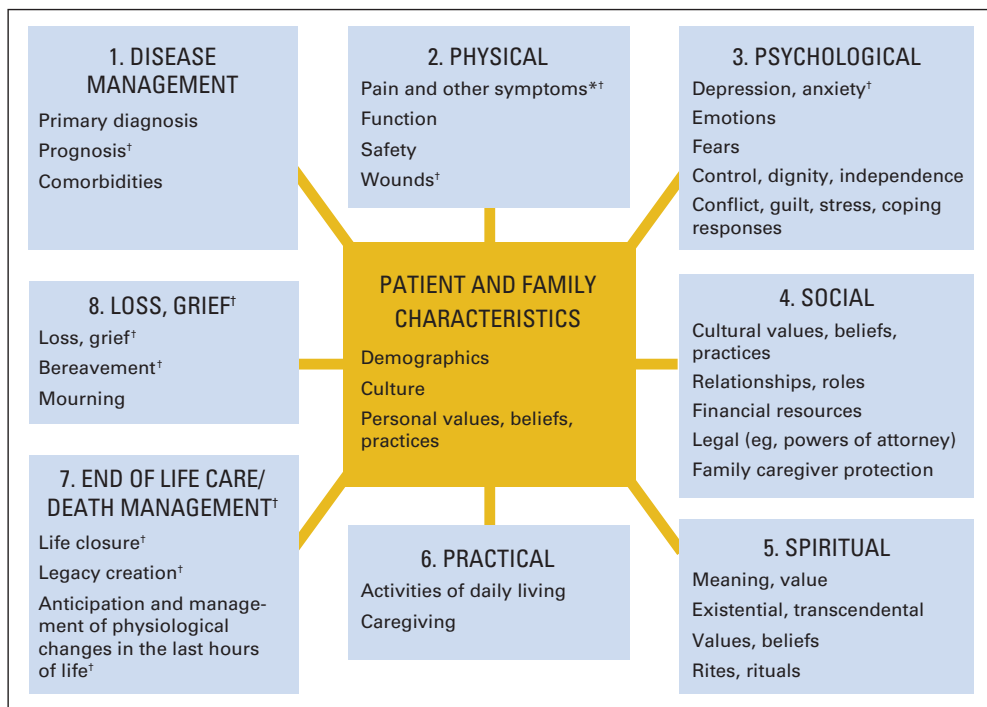


Fig 1. Multiple issues that cause suffering. Patients and families face multiple issues during illness and bereavement that cause suffering. These issues can be grouped into eight domains. (*) Other common symptoms include, but are not limited to: cardio-respiratory: breathlessness,[†] cough,[†] edema,[†] hiccups, apnea,[†] agonal breathing patterns;[†] gastrointestinal: nausea,[†] vomiting,[†] constipation,[†] obstruction,[†] bowel obstruction,[†] diarrhea,[†] bloating, dysphagia; oral conditions: dry mouth, mucositis;[†] skin conditions: dry skin, nodules, pruritus, rashes, odor;[†] general: anorexia,[†] cachexia,[†] fatigue,[†] weakness,[†] effusions,[†] incontinence, insomnia,[†] lymphoedema, sweats; neurological: delirium,[†] agitation,[†] myoclonus, sedation.[†] (†) Discussed in the Education in Palliative and End-of-Life Care for Oncology Curriculum.

The need for palliative care as a part of comprehensive cancer care in the United States is no different from the rest of the world. While the United States cure rate for cancer looks better than for the rest of the world, this is mostly due to preventive measures (smoking cessation), early detection (mammograms, colonoscopy), and surgical approaches to cure. Half of all cancers in the United States still result in death—the overall mortality curve according to the Surveillance, Epidemiology and End Results database has been flat for 30 years.⁶⁸

Experience of cancer in 2008. Since the introduction of antibiotics (eg, penicillin) in the early 1940s and the development of extensive medical, radiation, and surgical treatments for cancer and other diseases, the average life expectancy in North America and much of Western Europe has increased by 20 years in just 70 years. For many patients who are surviving with cancer for months to years, it has become a chronic illness.

Of the patients with advanced cancer, at least 60% will experience moderate to severe pain that requires opioids to control it. Pain rarely occurs in isolation; most patients live with multiple issues that are the manifestations (eg, symptoms, dysfunction) and predicaments (eg, change in roles, financial concerns, dependence) created by their underlying disease and its treatment (Fig 1).⁶⁹ The experience of cancer has a profound impact on both patients and their families.

Palliative cancer care is the integration into cancer care of therapies to address the multiple issues that cause suffering for patients and their families and have an impact on the quality of their lives. Palliative cancer care aims to give patients and their families the capacity to realize their full potential, when their cancer is curable as well as when the end of life is near.

In the 1998 special article, ASCO described “the oncologists’ responsibility to care for their patients in a continuum that extends from the moment of diagnosis throughout the course of the illness. In addition to appropriate anticancer treatment, this includes symptom control and psychosocial support during all phases of care, including those during the last phase of life”.¹ The model of cancer care is no longer a model of cure versus comfort (Fig 2).

Provision of palliative cancer care. An interdisciplinary team is required to provide the skills essential for effective palliative cancer care and to share the workload. Use of a team approach will have increasing importance as the shortage of oncologists grows as 2020 approaches.^{70,71} Palliative cancer care needs to be available to patients and families in all settings where they receive care, including outpatient clinics, acute and long-term care facilities, and

private homes. Caregiver burnout in the oncology community is high, estimated to be 60% by Allegra et al,⁷² and further research and education is needed to address and manage the relationship between the provision of palliative cancer care and issues of professional burnout.

Primary palliative cancer care is typically provided by generalists, including family physicians, general internists, and nononcology specialists. These clinicians are skilled in core palliative care competencies, including basic symptom assessment and management, communication and decision-making skills, and knowledge about psychosocial and community services. By the nature of cancer care, oncologists are frequently exposed to patients and families with multiple, concurrent issues (Fig 1). To provide this secondary level of palliative cancer care, oncologists require more knowledge and skill to manage complex situations and interactions (Table 4). When the complexity of a patient’s suffering exceeds the experience of the primary cancer care team, consultation with tertiary palliative cancer care experts may be necessary. This model implies two important facts: a significant proportion of palliative cancer care can be provided by the primary cancer care team; and consultation with palliative cancer care specialists may range from a single consultation about a specific issue to several encounters or ongoing involvement until death and into the period of bereavement.

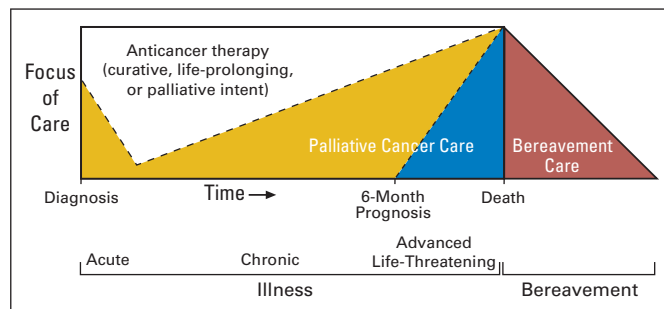


Fig 2. Model of palliative cancer care.

Table 4. Skills for Providing Palliative Cancer Care

Step No.	Action
1	Assessment*
2	Information sharing*
3	Decision making* <ul style="list-style-type: none"> Determination of capacity* Discussing goals of care* Requests for withdrawing/withdrawing therapy* Requests for physician-assisted suicide* Advance care planning* Surrogate decision-making* Conflict resolution*
4	Care planning
5	Care delivery
6	Confirmation of understanding, satisfaction, concerns

NOTE. During each therapeutic encounter, the process for providing care involves six essential steps that guide the interaction between caregivers, and the patient and family.

*Discussed in the Education in Palliative and End-of-Life Care for Oncology curriculum.

Vision for Comprehensive Cancer Care in 2020

By 2020, the United States and several other countries have national cancer control plans that include palliative care as a routine part of comprehensive cancer care for all patients. These services are available in every cancer center around the country. Just as growth factors and antibiotics are routinely administered to prevent neutropenic fever, consistent palliative cancer care is consistently delivered to prevent and relieve the suffering of patients and families from the day of diagnosis. The medications needed to provide palliative cancer care are readily available, without cost to the patient or family.

Oncologists have the knowledge and skills they need to understand the biologic science of cancer and its treatment and the psychologic and social sciences they need to care for patients and their families. They are supported by a skilled interdisciplinary team of nurses, social workers, psychologists, and spiritual counselors who are able to share much of the burden of the patient's, the family's, and the team's suffering. They also foster the search for meaning and value in the care the team is providing. Oncology caregivers are professionally and educationally supported as the deliverers of compassionate care; the issue of burnout and compassion fatigue are understood and addressed.

ASCO's educational materials, meetings, and courses seamlessly integrate new palliative cancer care concepts with advances in cancer management strategies. These resources are easily accessible to ASCO members and oncology trainees through a variety of media. The high quality of research in palliative cancer care is reflected by abstracts selected for plenary sessions and discussion in highlights sessions. Palliative cancer care is an integral part of oncology fellowship training and the certification examination.

ASCO's advocacy for funding strategies has led to a number of innovative palliative cancer care research initiatives and publications. Young investigators see this field as an attractive research career opportunity as the number of mentors has increased.

Recommendations

To achieve this vision of comprehensive cancer care by 2020 consistent with the WHO Strategy for integrating palliative care into cancer care, ASCO recommends changes in policy, drug availability, education, the integration of palliative care throughout the experience of cancer, quality improvement initiatives, and research. ASCO is committed to informing its membership and the public about the significant barriers to optimal palliative cancer care and to advocating legislative and regulatory changes that will eliminate these barriers.

Policy. ASCO believes that national and international cancer control policies that incorporate palliative cancer care are essential to the development of comprehensive cancer care by 2020. ASCO will collaborate with other US and international oncology stakeholders to advocate for the integration of

palliative cancer care into existing health care systems and national cancer control plans; and advocate for adequate funding to ensure that all patients have access to high-quality palliative cancer care, including the medications, therapies, and services they need.

Drug availability. ASCO believes that access to the medications and therapies needed to provide palliative cancer care, including opioids, is essential to realize comprehensive cancer care. The WHO List of Essential Medicines designates the minimum medications that should be available for the provision of high-quality palliative cancer care.⁷³ Where resources permit, a much wider scope of medications and therapies should be available. ASCO will collaborate with national and international stakeholders, including the International Narcotics Control Board, to ensure the availability of, and access to, adequate supplies of essential medicines, including opioids.

Education. Building on beliefs expressed in the 1998 special article and the accomplishments in the decade since then, ASCO endorses the following palliative cancer care objectives to be fully achieved during the next 10 years. Work on these objectives has already begun in many instances: update existing palliative cancer care educational resources and make them readily available to members and other oncology stakeholders worldwide (eg, through ASCO.org); translate these palliative cancer care educational resources into the other official United Nations languages; develop and disseminate educational materials related to palliative cancer care to support oncology fellowship training programs; provide technical support to the program directors to integrate palliative cancer care into oncology fellowship programs; develop and disseminate a list of institutions with comprehensive palliative cancer care programs that will accept oncology fellowship trainees; advocate to the Accreditation Council for Graduate Medical Education the mandatory inclusion of 1-month rotations in palliative cancer care during oncology fellowship; increase the number of questions on the ASCO fellowship in-training exam to assess candidate preparedness to provide effective palliative cancer care; consider the development of educational resources to help palliative medicine fellows and specialists understand oncology diagnosis, prognosis, and treatment; standardize the palliative cancer care-related terminology that is commonly used in oncology clinical trials and ASCO publications, (eg, best supportive care, palliative chemotherapy).

ASCO also will undertake the following to be achieved during the next 10 years: fully integrate palliative cancer care into the Society's annual and thematic meetings and courses; create education and research tracks specific to palliative cancer care into the Annual Meeting, including designated oral and poster sessions; work toward sponsorship of an award to support innovative palliative cancer care education; continue to expand its partnerships with national cancer societies in other countries by increasing the palliative cancer care content in existing courses (eg, Multidisciplinary Cancer Management Courses) and presenting courses specific to palliative cancer care.

Integration of palliative cancer care. To realize the vision of comprehensive cancer care by 2020 and build on the belief that quality cancer care "requires access to and the availability of state-of-the-art palliative cancer care rendered by skilled clinicians, buttressed when necessary, by palliative care experts"⁷⁴, ASCO envisions: development and dissemination of effective models of comprehensive cancer care that incorporate palliative cancer care; highlighted focus on cancer centers and regional cancer programs that are successfully integrating palliative cancer care into their services; recognition of excellence in palliative cancer care delivery with an award similar to the Clinical Trials Participation Award; highlighted resources and organizations that are prepared to help cancer centers integrate palliative cancer care (eg, the NCI-funded Disseminating End-of-Life Education to Cancer Centers Project).^{74,75}

Quality improvement. To ensure that the palliative cancer care received by patients and families is high quality and consistent, ASCO also prioritizes the following objectives: development of new evidence-based practice guidelines on topics germane to palliative cancer care in the areas where there is sufficient evidence, with consideration of such topics as the management of anorexia, dyspnea, fatigue, psychosocial support, and existential distress; dissemination and highlighting of existing standards, guidelines, measures, and outcomes that can be useful in improving and assessing the effectiveness of palliative cancer care; development of additional QOPI measures to evaluate

evidence-based practices related to survivorship and palliative cancer care, building on the work of stakeholders interested in improving the quality of cancer care (eg, IOM, NCI, the Commission on Cancer, the National Quality Forum).

Research. Recent advances in the treatment of cancer based on understanding the genetic and biologic factors underlying the pathophysiology of cancer have led to new treatment success and an increasing number of patients living with cancer as a chronic illness. The same model of systematic investigation can serve as a blueprint to improve our understanding of the pathophysiologic basis and treatment of the multiple issues that cause suffering of patients and families. The recommendation for research in palliative cancer care in the 1998 special article is now more compelling than ever as the overall burden of suffering increases. The following objectives meet this need: collaboration with NCI and other funding agencies to facilitate the development of research to address the multiple issues and the key skills of palliative cancer care (Fig 1 and Table 4); development and dissemination of guidelines on methodology and the evaluation of patient-reported outcomes; continued fostering of Career Development, Young Investigator, and Merit awards specific to palliative cancer care; advocacy with the NCI of formation of a study section devoted to palliative cancer care research.

CONCLUSION

The worldwide need for palliative cancer care to relieve the suffering of patients and families living with cancer is greater than ever. Over the past decade, ASCO, its members, and other stakeholders have made strides to meet the recommendations published in ASCO's Special Article "Cancer Care at the End of Life" in 1998.¹ ASCO recognizes that further efforts are needed and is committed to facilitating the integration of palliative cancer care into existing health care systems worldwide in order to realize the vision of comprehensive cancer care by 2020.

REFERENCES

1. American Society of Clinical Oncology: Cancer care during the last phase of life. *J Clin Oncol* 16:1986-1996, 1998
2. American Federation of Clinical Oncologic Societies: Access to quality cancer care: Consensus statement. *J Clin Oncol* 16:1628-1630, 1998
3. Field MJ, Cassel CK (eds): *Institute of Medicine: Approaching Death: Improving Care at the End of Life*. Washington, DC, National Academies Press, 1997. <http://www.nap.edu/html/approaching/>
4. Hewitt M, Simone JV (eds): *Institute of Medicine: Ensuring Quality Cancer Care*. Washington, DC, National Academies Press, 1999. http://www.nap.edu/catalog.php?record_id=6467
5. Hewitt M, Simone JV (eds): *Institute of Medicine: Enhancing Data Systems to Improve the Quality of Cancer Care*. Washington, DC, National Academies Press, 2000. <http://www.iom.edu/?id=31507>
6. Institute of Medicine: *Improving Palliative Care for Cancer*. Washington, DC, National Academies Press, 2001. <http://www.nap.edu/openbook.php?isbn=0309074029>
7. Institute of Medicine: *Improving Palliative Care for Cancer: Summary and Recommendations*. Washington, DC, National Academies Press, 2001. <http://www.nap.edu/openbook.php?isbn=0309075637>
8. Institute of Medicine: *Cancer Control Opportunities in Low- and Middle-Income Countries*.

- Washington, DC, National Academies Press, 2007. http://www.nap.edu/catalog.php?record_id=11797
9. Institute of Medicine: *Cancer Care for the Whole Patient: Meeting Psychosocial Health Needs*. Washington, DC, National Academies Press, 2007. <http://www.iom.edu/CMS/3809/34252/47228.aspx>
 10. World Health Organization: Definition of palliative care. <http://www.who.int/cancer/palliative/en/>
 11. Sepulveda C, Marlin A, Yoshida T, et al: Palliative care: The World Health Organization's global perspective. *J Pain Symptom Manage* 24:91-96, 2002
 12. Stjernsward J, Foley KM, Ferris FD: The public health strategy for palliative care. *J Pain Symptom Manage* 33:486-493, 2007
 13. World Health Organization: *Guide on Palliative Care Services for People Living with Advanced Cancer*. Geneva, Switzerland, World Health Organization, 2007. <http://www.who.int/entity/cancer/media/FINAL-Palliative%20Care%20Module.pdf>
 14. World Health Organization: *Achieving balance in national opioids control: Guidelines for assessment*. Geneva, Switzerland, World Health Organization, 2000. <http://www.painpolicy.wisc.edu/publicat/00whoabi/00whoabi.htm>
 15. International Atomic Energy Agency: *Programme of Action for Cancer Therapy*. Vienna, Austria, International Atomic Energy Agency, 2006. <http://cancer.iaea.org/index.asp>
 16. World Health Assembly: *WHA58.22 Cancer Prevention and Control*. http://www.who.int/gb/ebwha/pdf_files/WHA58/WHA58_22-en.pdf

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17. American Society of Clinical Oncology: ASCO-ESMO consensus statement on quality cancer care. *J Clin Oncol* 24:3498-3499, 2006
18. M. D. Anderson Cancer Center: Department of Palliative Care and Rehabilitation Medicine. Houston, TX, M. D. Anderson Cancer Center. <http://www.mdanderson.org/departments/palliative/>
19. Elsayem A, Swint K, Fisch MJ, et al: Palliative care inpatient service in a comprehensive cancer center: Clinical and financial outcomes. *J Clin Oncol* 22:2008-2014, 2004
20. National Hospice & Palliative Care Organization: *Facts and Figures: Hospice Care in America*. Alexandria, VA, National Hospice & Palliative Care Organization, 2007. <http://www.nhpc.org/f4a/pages/Index.cfm?pageid=3274>
21. American Society of Clinical Oncology Ad Hoc Committee on Cancer Pain: *Cancer Pain Assessment and Treatment Curriculum Guidelines*. *J Clin Oncol* 10:1976-1982, 1992
22. Recommendations for the use of hematopoietic colony-stimulating factors: Evidence-based, practice guidelines. *J Clin Oncol* 12:2471-2508, 1994
23. Recommendations for the use of antiemetics: Evidence-based, clinical practice guidelines. *J Clin Oncol* 17:2971-2994, 1999
24. Clinical practice guidelines for the use of chemotherapy and radiotherapy protectants. *J Clin Oncol* 17:3333-3355, 1999
25. Platelet transfusion for patients with cancer: Clinical practice guidelines of the American Society

- of Clinical Oncology. *J Clin Oncol* 19:1519-1538, 2001
26. American Society of Clinical Oncology 2003 update on the role of bisphosphonates and bone health issues in women with breast cancer. *J Clin Oncol* 21:4042-4057, 2003
 27. American Society of Clinical Oncology treatment of unresectable non-small-cell lung cancer guideline: Update 2003. *J Clin Oncol* 22:330-353, 2003
 28. American Society of Clinical Oncology Clinical practice guideline for the use of larynx-preservation strategies in the treatment of laryngeal cancer. *J Clin Oncol* 24:3693-3704, 2006
 29. American Society of Clinical Oncology 2007 clinical practice guideline update on the role of bisphosphonates in multiple myeloma. *J Clin Oncol* 25:2464-2472, 2007
 30. American Society of Clinical Oncology 2007 clinical practice guideline update on the role of bisphosphonates in multiple myeloma. *J Clin Oncol* 25:2464-2472, 2007
 31. American Society of Clinical Oncology endorsement of the cancer care ontario practice guideline on nonhormonal therapy for men with metastatic hormone-refractory (castration-resistant) prostate cancer. *J Clin Oncol* 25:5313-5318, 2007
 32. National Quality Forum: A National Framework and Preferred Practices for Palliative and Hospice Care Quality. Washington, DC, National Quality Forum, 2006. <http://www.qualityforum.org/publications/reports/palliative.asp>
 33. American Society of Clinical Oncology: Quality Oncology Practice Initiative. <http://www.asco.org/ASCO/About+ASCO/ASCO+Information/Annual+Reports/2006-2007+Annual+Report/Section+1.+Quality+Care/QOP/#mainContent%20idmainContent>
 34. European Society of Medical Oncology Policy on Supportive and Palliative Care. <http://www.esmo.org/resources/policies/palliationpolicy/>
 35. European Society of Medical Oncology special accreditation program in supportive and palliative care. www.esmo.org/activities/evaluation/designatedcenters/
 36. World Health Organization: Palliative care: Symptom management and end-of-life care. Geneva, Switzerland, World Health Organization, 2004
 37. Levy MH, Back A, Bazargan S, et al: Palliative care: Clinical practice guidelines in oncology. *J Natl Compr Cancer Netw* 8:776-818, 2006
 38. National Comprehensive Cancer Network: <http://www.nccn.org>
 39. Federation of State Medical Boards of the United States: Model policy for the use of controlled substances for the treatment of pain. Dallas, TX, Federation of State Medical Boards of the United States Inc, 2004. <http://www.fsmb.org/re/pain/modelpolicy.html>
 40. Emanuel LL, Ferris FD, von Gunten CF, et al: EPEC-O: Education in Palliative and End-of-life Care for Oncology. Chicago, IL, The EPEC Project, 2005. <http://www.epec.net/EPEC/Webpages/partner.cfm>
 41. Hilden JM, Emanuel EJ, Fairclough DL, et al: Attitudes and practices among pediatric oncologists regarding end-of-life care: Results of the 1998 American Society of Clinical Oncology survey. *J Clin Oncol* 19:205-212, 2001
 42. American Society of Clinical Oncology: Optimizing Cancer Care: The Importance of Symptom Management. Dubuque, IA, Kendall/Hunt, 2001
 43. American Society of Clinical Oncology: <http://www.asco.org>
 44. Cancer.net: <http://www.cancer.net>
 45. American Society of Clinical Oncology: Oncology Medical Knowledge Self-Assessment Program (ed 3). Alexandria, VA, American Society of Clinical Oncology, 2004. <http://www.asco.org>
 46. American Society of Clinical Oncology: ASCO-SEP: Medical Oncology Self-Evaluation Program. <http://www.asco.org>
 47. Muss HB, Von Roenn J, Damon LE, et al: ACCO: ASCO Core Curriculum Outline. *J Clin Oncol* 23:2049-2077, 2005
 48. EPEC-Oncology at NCI.gov. <http://www.cancer.gov/aboutnci/epeco>
 49. EPEC-Oncology at EPEC.net, <http://www.epec.net>
 50. EPEC-Oncology Last Hours of Living Module on Medscape. <http://www.medscape.com/viewprogram/5808>
 51. EPEC-Oncology Hydration and Nutrition Module on Medscape. <http://www.medscape.com/viewprogram/8617>
 52. American Society of Clinical Oncology Virtual Meeting. <http://www.asco.org/ASCO/Abstracts+%26+Virtual+Meeting/Virtual+Meeting>
 53. American Society of Clinical Oncology Educational Book. <http://www.asco.org/ASCO/Education+%26+Training/Education/Educational+Book>
 54. Institute of Medicine: From Cancer Patient to Cancer Survivor: Lost in Transition. Washington, DC, National Academies Press, 2005. <http://www.iom.edu/?id=31512>
 55. Lee SJ, Schover LR, Partridge AH, et al: American Society of Clinical Oncology recommendations on fertility preservation in cancer patients. *J Clin Oncol* 24:2917-2931, 2006
 56. Carver JR, Shapiro CL, Ng A, et al: American Society of Clinical Oncology clinical evidence review on the ongoing care of adult cancer survivors: Cardiac and pulmonary late effects. *J Clin Oncol* 25:3991-4008, 2007
 57. Portenoy RK: Continuous infusion of opioid drugs in the treatment of cancer pain: Guidelines for use. *J Pain Symptom Manage* 1:223-228, 1986
 58. Slavik NA: Editorial. *Palliat Med* 1:i-ii, 1987
 59. Senn HJ: How 'supportive' is yet another international oncology journal? *Support Care Cancer* 1:1, 1993
 60. Billings JA: What is palliative care? *J Palliative Medicine* 1:73-81, 1998
 61. Gallagher RM: Pain medicine: A journal for the new millennium. *Pain Med* 1:1-2, 2000
 62. Von Roenn J: Why do oncologists need this new journal? *J Supportive Oncol* 1:7-10, 2003
 63. American Board of Internal Medicine, Medical Oncology Exam Blueprint. <http://www.abim.org/exam/cert/medon.aspx>
 64. ASTRO Scope of Radiation Oncology Practice. <http://www.astro.org>
 65. von Gunten CF, Lupu D: Development of a medical subspecialty in palliative medicine: Progress report. *J Palliative Med* 7:209-219, 2004
 66. Portenoy RK, Lupu D, Arnold RM, et al: The road to formal recognition: The end is in sight. *Palliative Med* 8:266-268, 2005
 67. American Board of Medical Specialties. http://www.abms.org/Who_Ve_Help/Physicians/specialties.aspx
 68. Jemal A, Siegel R, Ward E, et al: Cancer Statistics, 2007. *CA Cancer J Clin* 57:43-66, 2007
 69. Portenoy RK, Thaler HT, Kornblith AB, et al: Symptom prevalence, characteristics and distress in a cancer population. *Qual Life Res* 3:183-189, 1994
 70. Erikson C, Salsberg E, Forte G, et al: Future supply and demand for oncologists: Challenges to assuring access to oncology services. *J Oncol Pract* 3:79-86, 2007
 71. Hortobagyi GN: A shortage of oncologists? The American Society of Clinical Oncology Workforce study. *J Clin Oncol* 25:1468-1469, 2007
 72. Allegra CJ, Hall R, Yothers G: Prevalence of burnout in the U.S. oncology community: Results of a 2003 survey. *J Oncol Pract* 1:140-147, 2005
 73. De Lima L, Krakauer EL, Lorenz K, et al: Ensuring palliative medicine availability: The development of the IAHPIC list of essential medicines for palliative care. *J Pain Symptom Manage* 33:521-526, 2007
 74. Disseminating End-of-Life Education to Cancer Centers. Duarte, CA, City of Hope National Medical Center, 2001. <http://deletcc.coh.org/>
 75. Grant M, Hanson J, Mullan P, et al: Disseminating end-of-life education to cancer centers: Overview of program and of evaluation. *J Cancer Educ* 22:140-148, 2007



Palliative cancer care a decade later: accomplishments, the needs, next steps-from the American Society of Clinical Oncology. *J Clin Oncol*. 2009;27:3052-8. PubMedCrossRefGoogle Scholar. 4. Teno JM, Condor SR. Referring a patient and family to high-quality palliative care at the close of life: "We met a new personality" with this level of compassion and empathy. *JAMA*. 2009;301:651-9. PubMedCrossRefGoogle Scholar. 5. American society of clinical oncology statement: towards individualized care for patients with advanced cancer. *J Clin Oncol*. 2011;29:755-60. PubMedCrossRefGoogle Scholar. Palliative cancer care a decade later: accomplishments, the need, next steps "from the American Society of Clinical Oncology. *J Clin Oncol* 2009;27:3052-3058. Note: All recommendations are category 2A unless otherwise indicated. Clinical Trials: NCCN believes that the best management of any cancer patient is in a clinical trial. Participation in clinical trials is especially encouraged. > Discuss advance care planning. > Rescreen at next visit. cManagement of any patient with positive screening requires a care plan developed by an interdisciplinary team of physicians, nurses, social workers, and other mental health professionals, chaplains, nurse practitioners, physician assistants, and dietitians. Accomplishments, the need, next steps"From the American Society of Clinical. Oncology. *J Clin Oncol* 27:3052-3058, 2009. 6. Von Roenn JH, von Gunten C: The care people need and the education of. physicians. providers in oncology will need to be included in the educational. initiatives designed to improve this aspect of care. Other options for educating oncologists about pain management. [9] The National Comprehensive Cancer Care Network's palliative care guidelines recommend screening of all patients' for palliative care issues during initial oncology consultation and subsequently at clinically relevant times. Integration of Early Specialist Palliative Care in Cancer Care: Survey of Oncologists, Oncology Nurses, and Patients.