



End-of-Life Care-Comprehensive Management: Clinical, Nutritional, and Psychosocial Perspectives

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Abstract

Background: End-of-life care is a universal healthcare challenge, requiring clinical, cultural, and ethical considerations to ensure dignity and quality of life.

Aim: To explore comprehensive strategies for managing end-of-life care, including communication, cultural integration, symptom control, and ethical decision-making.

Methods: A narrative review of current frameworks and guidelines, including NHPCO standards, CONFHER cultural assessment model, and WHOQOL-BREF quality-of-life tool, was conducted to synthesize best practices.

Results: Effective care planning involves early communication, cultural sensitivity, multidisciplinary collaboration, and systematic symptom management. Ethical principles—autonomy, beneficence, non-maleficence, and justice—guide decisions, particularly regarding advance directives and termination of futile interventions.

Conclusion: Patient-centered, culturally informed, and ethically sound care enhances comfort and dignity during the terminal phase. Integration of multidisciplinary services and structured communication improves outcomes for patients and families.

Keywords: End-of-life care, palliative care, cultural competence, symptom management, ethics, quality of life.

Introduction

End-of-life represents a universal stage of the human experience, affecting every individual regardless of demographics, lifestyle, or health status. Unlike specific diseases or conditions that impact only subsets of the population, the transition to end-of-life is inevitable for all. Globally, it is estimated that approximately twenty million individuals require some form of end-of-life care each year. In the United States alone, an average of 7,000 deaths occur daily due to a range of illnesses, highlighting the frequency with which healthcare providers encounter patients approaching the terminal phase of life. Consequently, clinicians across all disciplines who engage in direct

patient care are likely to encounter actively dying patients during their careers. It is therefore essential for healthcare professionals to understand the clinical, ethical, and psychosocial dimensions of end-of-life, as well as the key considerations that arise in this stage of care [1]. Advances in medical science have altered the trajectory of end-of-life, extended average life expectancy and consequently changing the temporal and experiential characteristics of the dying process. These shifts contribute to the variability and complexity of end-of-life care, making it difficult to establish rigid definitions applicable to all patients. Within the healthcare literature, definitions of end-of-life are heterogeneous. Some

frameworks apply a temporal criterion, often citing a period of fewer than six months of expected survival as the threshold for end-of-life designation. Other approaches focus on the immediate final hours or days of life, emphasizing the physiological and clinical manifestations of imminent death [2]. Alternative perspectives equate end-of-life with the entire dying process, encompassing both the final stages of terminal illness and the broader trajectory toward death. The National Hospice and Palliative Care Organization (NHPCO) defines end-of-life or hospice care as beginning when a patient is diagnosed with a terminal illness with an anticipated survival of six months or less, and when curative interventions are no longer feasible. This definition underscores the importance of recognizing the shift from disease-directed treatment to comfort-focused, supportive care. Healthcare professionals must appreciate that end-of-life is inherently individualized, with significant variability in duration and clinical presentation. Some patients may engage in structured end-of-life care for months, whereas others may require support for only a brief period preceding death. Awareness of disease trajectory and prognostic indicators in terminal or life-limiting illnesses enables clinicians to anticipate patient needs, address potential complications, and implement strategies to alleviate physical, emotional, and social distress. By understanding these dynamics, healthcare providers can prepare for the multifaceted issues that arise in end-of-life care, ensuring interventions are patient-centered, timely, and ethically sound [1][2].

Issues of Concern

End-of-life care encompasses a range of complex issues that impact both patients and their families. These concerns extend beyond the physical aspects of dying to include communication, cultural considerations, planning of care, ethical decision-making, pain and symptom management, and the process of terminating care. Healthcare professionals must recognize that not all of these concerns are uniformly relevant to every patient, and individualized assessment is essential to providing effective, patient-centered care. Awareness and understanding of these issues allow clinicians to anticipate challenges, address patient and family needs, and promote dignity and quality of life during the dying process. Communication represents one of the most critical areas of concern in end-of-life care. Discussions about prognosis, anticipated disease trajectory, and preferences for care are inherently challenging for both patients and healthcare providers. These conversations are often further complicated when team members lack formal training or experience in navigating end-of-life dialogue [3]. Nevertheless, research consistently demonstrates that patients value open, honest, and compassionate communication. Transparency fosters trust, allows patients to participate in decision-making, and

ensures care aligns with their preferences and values [4]. Guidelines from the National Hospice and Palliative Care Organization (NHPCO) recommend that healthcare professionals approach these conversations with empathy, sensitivity, and respect.



Fig. 1: End of life care.

A central principle in end-of-life communication is assessing the patient's readiness to engage in discussions regarding prognosis and the dying process. Evidence suggests that healthcare team members who maintain long-standing relationships with the patient are best positioned to determine this readiness. While there is no standardized tool to evaluate willingness, clinicians with established rapport can identify patient concerns, emotional state, and preferences regarding the amount of information they wish to receive. Ideally, these conversations occur in the presence of supportive individuals, such as family members or close friends, allowing the patient to ask questions and receive emotional reinforcement during a difficult discussion [5][6]. Engaging supportive companions also helps ensure that patient preferences are understood and respected throughout the care trajectory. Conversational strategies guide the initiation of end-of-life discussions. Open-ended questions such as "What do you know about your condition?" or "What do you think will happen?" allow the patient to share their current understanding and expectations. Similarly, asking, "Some patients I see want to know many details about their diagnosis, while others prefer just a general discussion. Which do you prefer?" allows the patient to define the level of detail they wish to receive, promoting autonomy and individualized care [7]. These approaches encourage patients to direct aspects of their care and support the development of a patient-centered plan that emphasizes comfort, symptom management, and quality of life.

Language used during end-of-life conversations is also critical. Providers are advised to avoid statements that may convey hopelessness or failure, such as "There is nothing more we can do for you" or "You are losing your battle with [disease]." Instead, clinicians should emphasize available interventions and supportive measures, for example, "We can offer more options to control the symptoms you are experiencing." Such phrasing preserves hope while maintaining honesty and realistic expectations. Cultural considerations play a pivotal role in shaping

end-of-life communication. Patients' cultural backgrounds influence not only the timing and content of discussions but also who should receive information and the manner in which it is delivered. Awareness of cultural preferences enables healthcare professionals to avoid assumptions and stereotypes, fostering patient-centered care that respects values, beliefs, and traditions [8]. Knowledge of cultural affiliations, combined with a strong therapeutic rapport, allows providers to navigate sensitive conversations effectively, ensuring that end-of-life care honors both the patient's medical needs and personal values. In summary, communication at the end of life requires careful attention to patient readiness, cultural context, language, and emotional support. By adopting structured approaches and empathetic strategies, healthcare professionals can address patient concerns, facilitate shared decision-making, and enhance the quality of care during this critical stage of life. End-of-life communication is a dynamic process that must be continuously adapted to each patient's circumstances, preferences, and clinical trajectory, forming the foundation for compassionate, ethical, and patient-centered care [5][6][7][8].

Cultural Considerations

Culture is defined as the ideas, beliefs, and values that underpin and influence people's actions, decisions, and interpretations of experiences in specific contexts [8]. It encompasses not only racial and ethnic identities but also socially constructed norms and practices that guide daily life and decision-making [9]. Within the context of end-of-life care, culture significantly shapes how individuals interpret illness, approach death, and make healthcare decisions. Recognition and integration of cultural considerations into clinical practice are essential, as research demonstrates that when healthcare professionals conduct thorough cultural assessments and apply findings to care planning, both patient and family satisfaction, as well as overall quality of life, are substantially improved [9][10][11]. Multiple frameworks exist for conducting cultural assessments, one of the most widely used being the CONFHER Model, developed by nurse researcher Fong in the 1980s. The model remains a cornerstone of cultural assessment in contemporary nursing and palliative care, guiding healthcare providers in exploring the influence of culture across multiple domains that are relevant to patient care. Complementing the CONFHER Model, additional structured questions derived from the Oxford Textbook of Palliative Care in Nursing can be employed to achieve a comprehensive understanding of the patient's cultural preferences and needs. Communication is the first domain addressed in the CONFHER Model. Healthcare providers must identify the patient's primary language, comprehension of medical terminology, and nonverbal communication patterns. This domain also

addresses preferences regarding interactions with caregivers, such as gender preferences for those providing direct care. For example, a provider may ask, "We want to respect you in all ways possible while caring for you. Are you comfortable with male and female caregivers, or do you prefer one?" This approach ensures respect for patient preferences and minimizes cultural discomfort, which can impact trust and engagement.

Orientation examines the patient's values and cultural affiliations. Here, providers inquire directly about the cultural group with which the patient identifies and any relevant customs or practices to be incorporated into care. Statements such as, "We ask all of our patients what cultural group they belong to so we can try to accommodate any cultural needs you might have. To which cultural group do you belong?" facilitate open communication and demonstrate respect for the patient's identity, promoting a culturally sensitive care environment. Nutrition is another critical domain, particularly in end-of-life care where dietary needs, restrictions, and preferences may be influenced by cultural or religious practices. Questions should explore permissible and prohibited foods, attitudes toward artificial nutrition and hydration, and any culturally significant practices surrounding meals. Family relationships influence decision-making and care planning, particularly in cultures where familial input supersedes individual autonomy. Providers should inquire about household structure, decision-making authority, and the desired involvement of family or friends during illness. Questions such as, "Who is the head of your household?" or "Should I speak directly to you about healthcare decisions, or is there someone else in your family with whom I should discuss decisions?" clarify the appropriate communication pathway and ensure that care aligns with familial expectations [9][10][11].

Health beliefs encompass the patient's understanding of illness causation, preventive practices, and treatment expectations. Some cultural groups may not adhere to biomedical models, instead attributing illness to imbalance, spiritual causes, or past actions. Providers can explore these beliefs by asking, "What do you do to stay healthy?" or "How do you explain illness?" Understanding these perspectives allows care plans to integrate medical recommendations with patient beliefs, improving adherence and satisfaction. Education level and learning preferences affect how patients receive and process information. Providers should ask about formal education and preferred teaching methods, such as reading, one-on-one discussion, small groups, or multimedia presentations. Aligning communication strategies with the patient's learning style ensures comprehension and supports informed decision-making. Spirituality and religion are integral to many patients' end-of-life experiences, guiding rituals, dietary practices, and approaches to coping

with illness. Providers should inquire about religious affiliations, required rituals, and spiritual needs, incorporating these into the patient-centered care plan. Conducting a comprehensive cultural assessment using these domains allows healthcare providers to develop individualized, culturally competent care plans. Respecting and integrating patients' cultural values into end-of-life care enhances quality of life, supports dignity, and fosters trust between patients, families, and healthcare teams. Culturally informed care is therefore not merely an ethical imperative but a practical strategy to optimize outcomes in the care of dying patients [11].

Plan of Care

Planning and delivering care for patients approaching the end of life represents a complex and multifaceted endeavor that requires early, thoughtful, and patient-centered engagement. Ideally, end-of-life care planning should begin at or near the time of a terminal diagnosis, allowing sufficient time for conversations that clarify patient values, preferences, and goals for care. Evidence indicates that frequent clinician-patient interactions are essential to ensure that care aligns with the individual's wishes throughout the dying process [12][13]. The Institute of Medicine emphasizes the importance of initiating these discussions early in the illness trajectory, enabling patients and families to make informed decisions regarding interventions, treatment limitations, and goals of care. Early planning often involves formalized conversations about prognosis, potential complications, and drafting advance directives, which serve as a legal and ethical framework to honor patient autonomy. Research consistently demonstrates that individualized end-of-life care, structured around the patient's goals and values, enhances quality of life and supports dignity while minimizing unnecessary interventions [12][13]. Healthcare professionals must prioritize quality over quantity of life, focusing on comfort, symptom management, and meaningful engagement rather than solely on prolonging survival. Assessment tools that quantify and monitor quality of life can guide end-of-life care planning. Various instruments have been developed for specific populations, such as the Quality of Life in Breast Cancer (QOL-BC) scale and the Cardiac Health Profile for patients with cardiovascular disease. In clinical practice, however, healthcare professionals often manage patients with diverse diagnoses, making more generalized tools useful. The World Health Organization's WHOQOL-BREF is widely employed for this purpose, evaluating quality of life across four key domains: physical health, psychological health, social relationships, and environmental resources. The physical domain assesses activities of daily living, energy, fatigue, sleep, and pain. The psychological domain evaluates self-esteem, spirituality, religiosity, and emotional experiences, both positive and

negative. Social relationships encompass personal connections, social support, and sexual activity, while environmental resources examine financial stability, access to healthcare, home environment, and leisure opportunities. This instrument consists of twenty-six questions, which the healthcare team can administer, score, and use to inform individualized care planning. By systematically assessing these domains, clinicians can tailor interventions to address the specific needs and priorities of the patient, thereby maximizing comfort, autonomy, and overall well-being.

The integration of multidisciplinary services is central to delivering high-quality end-of-life care. Research supports models that coordinate services across the care continuum, triggered by patient-specific needs, as a means to enhance quality of life [14]. These services may include palliative care consultation, social work, spiritual care, physical and occupational therapy, mental health support, and respiratory therapy. Coordinated delivery ensures that physical, psychosocial, and spiritual needs are addressed comprehensively, supporting both patients and their families during this critical phase. The proactive integration of care also reduces fragmentation, ensures consistency in messaging, and promotes shared decision-making across disciplines, which is particularly valuable when complex medical, ethical, or psychosocial considerations arise. Ethical considerations are central to end-of-life care, as this stage often presents dilemmas requiring careful navigation of principles in clinical practice. Healthcare professionals must maintain an unwavering focus on enhancing the patient's quality of life while respecting autonomy, ensuring beneficence, avoiding harm, and upholding justice [15][16]. Autonomy requires assessment of the patient's cognitive and developmental capacity to understand their diagnosis, appreciate the implications of treatment options, and make informed decisions. Beneficence obligates clinicians to act in the patient's best interest, while non-maleficence ensures that interventions do not exacerbate suffering. Justice requires that decisions regarding care allocation and resource utilization are fair and aligned with the patient's needs and rights. These ethical principles form the foundation for deliberations regarding treatment options, advance directives, and the resolution of conflicts between patients, families, and healthcare teams.

A common ethical challenge arises when patients lose decision-making capacity. In such circumstances, advanced directives serve as critical instruments to uphold autonomy, guiding healthcare professionals in honoring patient preferences and identifying designated decision-makers, often a durable power of attorney. Despite their importance, only a minority of patients have formal advanced directives, often due to lack of awareness or understanding of their purpose. Early engagement in

discussions about advance care planning is essential, as it facilitates selection of a proxy decision-maker, clarifies patient wishes, and reduces the likelihood of conflict during acute care episodes [17]. Ethical dilemmas also emerge when medical interventions are considered futile or when care decisions unnecessarily prolong suffering. Futile care encompasses interventions that may achieve physiological outcomes without meaningful benefit to the patient's comfort, dignity, or quality of life. Examples include aggressive resuscitation in frail or terminally ill patients, unnecessary diagnostic procedures, or invasive surgeries that do not alter the trajectory of comfort-focused care [18][19][20]. These decisions must be contextualized within the patient's illness, prognosis, and expressed values, ensuring that interventions support goals of care rather than prolonging suffering or reducing dignity. Comprehensive cultural assessment can further inform these decisions, as cultural beliefs and values significantly influence perceptions of appropriate interventions, acceptable outcomes, and expectations regarding end-of-life care.

When disagreements arise between patients, families, and healthcare teams, institutional ethics committees provide guidance. These interprofessional bodies, typically comprising physicians, nurses, chaplains, social workers, and case managers, offer advice to facilitate ethical deliberation without superseding patient-centered decision-making. While their recommendations are not legally binding, ethics committees serve a critical role in mediating conflicts, clarifying ethical principles, and supporting healthcare teams in navigating complex end-of-life scenarios. By integrating ethical reflection, patient preferences, and cultural considerations, healthcare teams can deliver end-of-life care that is ethically sound, individualized, and aligned with the goals and values of the dying patient. In conclusion, the development and implementation of a plan of care for patients at the end of life require early, ongoing, and individualized assessment of patient preferences, quality of life, ethical considerations, and cultural influences. Tools such as the WHOQOL-BREF enable systematic evaluation of the patient's physical, psychological, social, and environmental needs, guiding targeted interventions. Multidisciplinary integration ensures comprehensive support, addressing clinical, psychosocial, and spiritual dimensions. Ethical principles, including autonomy, beneficence, non-maleficence, and justice, provide a framework for resolving dilemmas, particularly when patients lose decision-making capacity or when interventions may be medically futile. Advance directives and durable powers of attorney are essential mechanisms to uphold patient autonomy and facilitate decision-making. Finally, ethics committees offer guidance in complex cases, supporting healthcare teams to provide patient-

centered, ethically appropriate care. Through this approach, healthcare professionals can optimize quality of life, respect patient values, and ensure dignified, compassionate care during the terminal phase of illness [17][18][19].

Pain and Symptom Management

Patients at the end of life frequently experience a spectrum of distressing symptoms that significantly affect their quality of life. Proper assessment and management of these symptoms are central to providing comprehensive end-of-life care, enabling healthcare professionals to alleviate suffering and support comfort. Physical symptoms commonly include pain, respiratory distress, gastrointestinal disturbances, and fatigue, whereas psychological manifestations such as depression and anxiety influence emotional well-being and overall mental health. All members of the healthcare team share responsibility for regular and systematic assessment of these symptoms, using both objective measures and patient self-report whenever possible, to guide effective interventions. Pain remains one of the most prevalent and concerning symptoms for dying patients [21][22]. Routine, comprehensive pain assessments are essential, recognizing that pain intensity and character may fluctuate over time. Selection of an appropriate assessment tool depends on the patient's cognitive and developmental capacity. For instance, neonates and infants may be evaluated using the Child and Infant Postoperative Pain Scale, whereas verbal adults benefit from the PQRST framework. For patients unable to self-report due to conditions such as dementia or expressive aphasia, observational scales like the PAINAD are useful. Accurate assessment requires differentiating the types of pain—neuropathic, visceral, or somatic—to inform targeted interventions. Pharmacological management encompasses opioids, non-opioids, and adjuvant agents such as corticosteroids and antidepressants. Non-pharmacological strategies include heat or cold therapy, massage, meditation, music therapy, and, in jurisdictions where permitted, medical marijuana. Interventions should be individualized based on patient preference, clinical status, and evolving needs.

Respiratory symptoms, particularly dyspnea, affect up to 70% of dying patients [24]. Healthcare professionals should evaluate breathing patterns, respiratory effort, and the presence of accessory muscle use. Instruments like the Respiratory Distress Observation Scale (RDOS) provide structured assessment across parameters including respiratory rate, paradoxical breathing, nasal flaring, and signs of distress. Pharmacological treatments for dyspnea include opioids and bronchodilators, while non-pharmacological measures incorporate positioning, oxygen supplementation, and energy conservation techniques [25]. Continuous monitoring is critical, as symptom severity may change rapidly.

Gastrointestinal issues such as anorexia and constipation are also common. Assessment must identify whether these arise from the underlying disease, treatment side effects, or other causes. Management of anorexia may include corticosteroids or antipsychotics such as olanzapine, alongside dietary interventions tailored to patient preferences [26][27]. Constipation, frequently secondary to opioid therapy, is managed pharmacologically with pro-motility agents and non-pharmacologically through hydration, fiber intake, and mobility. Fatigue is a pervasive symptom at the end of life, characterized by debilitating exhaustion rather than general tiredness [28]. Validated tools such as the FACIT Fatigue Scale allow healthcare professionals to quantify fatigue's impact on social and functional abilities. Pharmacologic interventions focus on treating underlying causes such as anemia, dehydration, or infection, with stimulants like methylphenidate or corticosteroids used when etiology is unclear [29]. Non-pharmacological strategies include graded exercise, energy conservation, and physical therapy.

Psychological symptoms, particularly depression and anxiety, require systematic assessment using validated scales, such as the Hamilton Depression Rating Scale, GAD-7, or Self-Stigma Depression Scale [30][31][32]. Pharmacological treatments include SSRIs, NDRIs like bupropion, and benzodiazepines, while non-pharmacological approaches encompass cognitive-behavioral therapy, mindfulness, and structured exercise programs [33][34][35][36][37][38]. Timely identification and treatment of these symptoms are crucial to preserving dignity and emotional well-being. Comprehensive symptom management should integrate these physical, psychological, and functional domains, forming a dynamic plan responsive to patient needs and evolving clinical status. Collaborative care ensures that interventions are tailored, flexible, and aligned with the patient's goals, enhancing quality of life at the terminal stage.

Termination of Care

Termination of care, defined as the deliberate cessation of interventions that no longer benefit the patient or prolong suffering, is a critical component of end-of-life management [39]. Decisions regarding the withdrawal of care should not be made arbitrarily but are grounded in prior discussions about goals of care, prognosis, and patient preferences. When patients retain decision-making capacity, they should actively participate in determining when interventions should cease. If cognitive or developmental limitations prevent autonomous decision-making, responsibility falls to a designated durable power of attorney or legal proxy. Ethical guidance and institutional frameworks, including ethics committees, are essential when conflicts arise regarding the appropriateness of

continuing or discontinuing care. These committees, comprising physicians, nurses, social workers, chaplains, and case managers, provide multidisciplinary consultation, helping to balance patient-centered goals with ethical, clinical, and legal considerations. Decisions about termination of care should integrate prior conversations regarding symptom control, cultural preferences, and quality-of-life objectives, ensuring that patient comfort and dignity remain central to clinical decision-making. Overall, pain and symptom management and termination of care are interdependent aspects of end-of-life planning. Healthcare professionals must continually assess, intervene, and evaluate, focusing on patient comfort, symptom relief, and emotional support. By integrating pharmacological and non-pharmacological strategies, prioritizing individualized care, and involving patients and proxies in decision-making, the healthcare team can ensure that the dying experience maintains dignity, minimizes suffering, and aligns with patient values. These practices underscore the ethical and clinical imperative of patient-centered, culturally informed, and symptom-focused end-of-life care.

Clinical Significance

End-of-life care requires that each healthcare team member operate within the boundaries of their professional discipline while contributing their unique expertise to patient care. The scope of practice and professional standards of each discipline define the parameters of care, including which interventions can be provided, to whom, and in what manner. Adhering to these standards ensures that care is both safe and effective, particularly when patients face complex and dynamic needs at the end of life. When team members respect these professional boundaries while collaborating across disciplines, care becomes more coordinated, holistic, and patient-centered, enhancing both clinical outcomes and patient safety. Every healthcare provider brings a distinct perspective informed by training, experience, and role-specific responsibilities. Physicians contribute diagnostic and therapeutic expertise and guide the overall plan of care. Nurses provide continuous patient monitoring, administer medications, and observe symptom progression. Allied health professionals, including physical and occupational therapists, assess and optimize functional capacity, while respiratory therapists manage breathing difficulties and provide supportive interventions. Social workers and case managers facilitate access to community resources, counsel patients and families, and support psychosocial well-being. Spiritual care providers address existential concerns, offering support aligned with the patient's beliefs. By integrating these varied perspectives within a framework that respects each professional's scope, the healthcare team enhances the quality and safety of care while supporting the

patient's dignity and comfort. Professional boundaries also serve to protect both patients and providers, ensuring that interventions are evidence-based and ethically appropriate. Failure to operate within defined scopes of practice can result in fragmented care, medical errors, or ethical conflicts, which may compromise the patient's experience during the end-of-life period. Understanding the limitations and responsibilities inherent in one's own role while recognizing the complementary skills of colleagues creates a synergistic environment. This collaboration ensures that the end-of-life care plan is comprehensive, safe, and reflective of the patient's goals and preferences, emphasizing quality of life rather than solely focusing on the duration of survival [39].

Enhancing Healthcare Team Outcomes

Optimal end-of-life care relies on an interprofessional team in which each member contributes distinct expertise while maintaining clear communication and shared objectives. Physicians, particularly those specializing in hospice or palliative care, lead the medical management of dying patients, directing treatment interventions and coordinating with allied professionals. Nurses provide ongoing bedside care, administer medications, and assess the patient's clinical status, noting changes in symptom intensity and functional ability. Physical and occupational therapists support the maintenance of mobility and daily activities, helping to maximize patient independence and comfort. Respiratory therapists evaluate pulmonary function and provide interventions such as oxygen therapy to address dyspnea and other respiratory concerns. Social workers facilitate access to external resources, provide psychosocial support, and mediate between patient, family, and healthcare system requirements. Spiritual care providers offer guidance tailored to the patient's religious or existential preferences, helping to ensure that spiritual needs are addressed. Interprofessional collaboration requires systematic and effective communication, which can be enhanced through structured tools such as SBAR (Situation, Background, Assessment, Recommendation) or the Milestones Communication Approach [40]. These frameworks allow concise, accurate, and timely sharing of patient information, ensuring all disciplines are aware of changes in patient status and care needs. Research consistently demonstrates that when healthcare team members communicate effectively and understand the roles and responsibilities of their colleagues, patient outcomes improve significantly [41][42]. Each team member must recognize not only their individual responsibilities but also how their contributions integrate with those of other disciplines to create a cohesive care plan. End-of-life care is inherently complex and requires that the interprofessional team, including physicians, nurses, therapists, social workers, counselors, pharmacists, and non-medical

staff, collaborate with the patient and family to ensure consistent, patient-centered care. Effective interprofessional teamwork ensures that all members convey a unified message to the patient and family, reducing confusion and anxiety while fostering trust and adherence to the care plan. The integration of expertise across disciplines allows for more comprehensive assessment and management, addressing physical, psychological, social, and spiritual needs, ultimately enhancing the quality of life during the terminal stage of illness.

Conclusion:

End-of-life care demands a holistic, patient-centered approach that prioritizes comfort, dignity, and quality of life over mere prolongation of survival. Early and ongoing communication, grounded in empathy and cultural sensitivity, ensures that care aligns with patient values and family expectations. Multidisciplinary collaboration—encompassing medical, psychosocial, and spiritual domains—addresses the complex needs of dying patients while reducing fragmentation and enhancing trust. Ethical principles serve as a compass for navigating dilemmas related to autonomy, beneficence, and the avoidance of harm, particularly when patients lose decision-making capacity or when interventions become futile. Advance care planning and the use of tools such as WHOQOL-BREF enable systematic assessment and individualized care strategies. Ultimately, integrating cultural considerations, symptom management, and ethical reflection fosters compassionate, dignified care that honors the patient's preferences and supports families during one of life's most challenging transitions.

References:

1. Ferrell B, Virani R, Paice JA, Coyle N, Coyne P. Evaluation of palliative care nursing education seminars. European journal of oncology nursing : the official journal of European Oncology Nursing Society. 2010 Feb;14(1):74-9. doi: 10.1016/j.ejon.2009.08.004.
2. Crang C, Muncey T. Quality of life in palliative care: being at ease in the here and now. International journal of palliative nursing. 2008 Feb;14(2):90-7
3. Chi HL, Cataldo J, Ho EY, Rehm RS. Please Ask Gently: Using Culturally Targeted Communication Strategies to Initiate End-of-Life Care Discussions With Older Chinese Americans. The American journal of hospice & palliative care. 2018 Oct;35(10):1265-1272. doi: 10.1177/1049909118760310.
4. Berlin A. Goals of Care and End of Life in the ICU. The Surgical clinics of North America. 2017 Dec;
5. Pocock LV, Wye L, French LRM, Purdy S. Barriers to GPs identifying patients at the end-of-life and discussions about their care:

a qualitative study. *Family practice*. 2019 Oct 8:36(5):639-643. doi: 10.1093/fampra/cmy135.

6. Gramling R, Ingersoll LT, Anderson W, Priest J, Berns S, Cheung K, Norton SA, Alexander SC. End-of-Life Preferences, Length-of-Life Conversations, and Hospice Enrollment in Palliative Care: A Direct Observation Cohort Study among People with Advanced Cancer. *Journal of palliative medicine*. 2019 Feb;22(2):152-156. doi: 10.1089/jpm.2018.0476.
7. Jóhannesdóttir S, Hjörleifsdóttir E. Communication is more than just a conversation: family members' satisfaction with end-of-life care. *International journal of palliative nursing*. 2018 Oct 2:24(10):483-491. doi: 10.12968/ijpn.2018.24.10.483.
8. Evans N, Meñaca A, Koffman J, Harding R, Higginson IJ, Pool R, Gysels M, PRISMA. Cultural competence in end-of-life care: terms, definitions, and conceptual models from the British literature. *Journal of palliative medicine*. 2012 Jul;15(7):812-20. doi: 10.1089/jpm.2011.0526.
9. Russell J. Effects of Constraints and Consequences on Plan Complexity in Conversations About End-of-Life Care. *Journal of social work in end-of-life & palliative care*. 2015;11(3-4):323-45. doi: 10.1080/15524256.2015.1111286.
10. Givler A, Bhatt H, Maani-Fogelman PA. The Importance of Cultural Competence in Pain and Palliative Care. *StatPearls*. 2025 Jan
11. Kolmar A, Kamal AH. Developing a Path to Improve Cultural Competency in Islam Among Palliative Care Professionals. *Journal of pain and symptom management*. 2018 Mar;55(3):e1-e3. doi: 10.1016/j.jpainsympman.2017.11.008.
12. Ramplin C. Establishing a structured plan to provide high-quality end-of-life care in community settings. *British journal of community nursing*. 2019 Mar 2:24(3):120-127. doi: 10.12968/bjcn.2019.24.3.120.
13. Casotto V, Rolfini M, Ferroni E, Savioli V, Gennaro N, Avossa F, Cancian M, Figoli F, Mantoan D, Brambilla A, Ghiotto MC, Fedeli U, Saugo M. End-of-Life Place of Care, Health Care Settings, and Health Care Transitions Among Cancer Patients: Impact of an Integrated Cancer Palliative Care Plan. *Journal of pain and symptom management*. 2017 Aug;54(2):167-175. doi: 10.1016/j.jpainsympman.2017.04.004.
14. Evans CJ, Ison L, Ellis-Smith C, Nicholson C, Costa A, Oluyase AO, Namisango E, Bone AE, Brighton LJ, Yi D, Combes S, Bajwah S, Gao W, Harding R, Ong P, Higginson IJ, Maddocks M. Service Delivery Models to Maximize Quality of Life for Older People at the End of Life: A Rapid Review. *The Milbank quarterly*. 2019 Mar;97(1):113-175. doi: 10.1111/1468-0009.12373.
15. Testa G. Ethical issues regarding related and nonrelated living organ donors. *World journal of surgery*. 2014 Jul;38(7):1658-63. doi: 10.1007/s00268-014-2549-4.
16. Flite CA, Harman LB. Code of ethics: principles for ethical leadership. *Perspectives in health information management*. 2013;10(Winter):1d
17. Schuklenk U. New Frontiers in End-of-Life Ethics (and Policy): Scope, Advance Directives and Conscientious Objection. *Bioethics*. 2017 Jul;31(6):422-423. doi: 10.1111/bioe.12372.
18. Miettinen TT, Tilvis RS. Medical futility as a cause of suffering of dying patients--the family members' perspective. *Journal of palliative care*. 1999 Summer;15(2):26-9
19. Mawer C. Cardiopulmonary resuscitation can be futile and sometimes worse in dying patients. *BMJ (Clinical research ed.)*. 2014 Jul 15;349():g4584. doi: 10.1136/bmj.g4584.
20. Jecker NS. Medical futility and care of dying patients. *The Western journal of medicine*. 1995 Sep;163(3):287-91
21. Coyne P, Mulvenon C, Paice JA. American Society for Pain Management Nursing and Hospice and Palliative Nurses Association Position Statement: Pain Management at the End of Life. *Pain management nursing : official journal of the American Society of Pain Management Nurses*. 2018 Feb;19(1):3-7. doi: 10.1016/j.pmn.2017.10.019.
22. Tapp D, Chenacher S, Gérard NPA, Bérubé-Mercier P, Gelinas C, Douville F, Desbiens JF. Observational Pain Assessment Instruments for Use With Nonverbal Patients at the End-of-life: A Systematic Review. *Journal of palliative care*. 2019 Oct;34(4):255-266. doi: 10.1177/0825859718816073.
23. Raina R, Krishnappa V, Gupta M. Management of pain in end-stage renal disease patients: Short review. *Hemodialysis international. International Symposium on Home Hemodialysis*. 2018 Jul;22(3):290-296. doi: 10.1111/hdi.12622.
24. Birkholz L, Haney T. Using a Dyspnea Assessment Tool to Improve Care at the End of Life. *Journal of hospice and palliative nursing : JHPN : the official journal of the Hospice and Palliative Nurses Association*.

2018 Jun;20(3):219-227. doi: 10.1097/NJH.00000000000000432.

25. Benítez-Rosario MA, Rosa-González I, González-Dávila E, Sanz E. Fentanyl treatment for end-of-life dyspnoea relief in advanced cancer patients. *Supportive care in cancer : official journal of the Multinational Association of Supportive Care in Cancer*. 2019 Jan;27(1):157-164. doi: 10.1007/s00520-018-4309-8.

26. Yavuzsen T, Davis MP, Walsh D, LeGrand S, Lagman R. Systematic review of the treatment of cancer-associated anorexia and weight loss. *Journal of clinical oncology : official journal of the American Society of Clinical Oncology*. 2005 Nov 20;23(33):8500-11.

27. Miller S, McNutt L, McCann MA, McCorry N. Use of corticosteroids for anorexia in palliative medicine: a systematic review. *Journal of palliative medicine*. 2014 Apr;17(4):482-5. doi: 10.1089/jpm.2013.0324.

28. Cella D, Wilson H, Shalhoub H, Revicki DA, Cappelleri JC, Bushmakin AG, Kudlacz E, Hsu MA. Content validity and psychometric evaluation of Functional Assessment of Chronic Illness Therapy-Fatigue in patients with psoriatic arthritis. *Journal of patient-reported outcomes*. 2019 May 20;3(1):30. doi: 10.1186/s41687-019-0115-4.

29. Radbruch L, Strasser F, Elsner F, Gonçalves JF, Løge J, Kaasa S, Nauck F, Stone P, Research Steering Committee of the European Association for Palliative Care (EAPC). Fatigue in palliative care patients -- an EAPC approach. *Palliative medicine*. 2008 Jan;22(1):13-32. doi: 10.1177/0269216307085183.

30. Kieslich da Silva A, Reche M, Lima AFDS, Fleck MPA, Capp E, Shansis FM. Assessment of the psychometric properties of the 17- and 6-item Hamilton Depression Rating Scales in major depressive disorder, bipolar depression and bipolar depression with mixed features. *Journal of psychiatric research*. 2019 Jan;108():84-89. doi: 10.1016/j.jpsychires.2018.07.009.

31. Moreno E, Muñoz-Navarro R, Medrano LA, González-Blanch C, Ruiz-Rodríguez P, Limonero JT, Moretti LS, Cano-Vindel A, Moriana JA. Factorial invariance of a computerized version of the GAD-7 across various demographic groups and over time in primary care patients. *Journal of affective disorders*. 2019 Jun 1;252():114-121. doi: 10.1016/j.jad.2019.04.032.

32. Wiglusz MS, Landowski J, Cubała WJ. Psychometric properties of the Polish version of the Hamilton Anxiety Rating Scale in patients with epilepsy with and without comorbid anxiety disorder. *Epilepsy & behavior : E&B*. 2019 May;94():9-13. doi: 10.1016/j.yebeh.2019.02.017.

33. Klimes-Dougan B, Westlund Schreiner M, Thai M, Gunlicks-Stoessel M, Reigstad K, Cullen KR. Neural and neuroendocrine predictors of pharmacological treatment response in adolescents with depression: A preliminary study. *Progress in neuropsychopharmacology & biological psychiatry*. 2018 Feb 2;81():194-202. doi: 10.1016/j.pnpbp.2017.10.015.

34. Avey JP, Dirks LG, Dillard DA, Manson SM, Merrick M, Smith JJ, Prickette GC, Tetpon S, Galbreath D, Triplett B, Robinson RF. Depression management interests among Alaska Native and American Indian adults in primary care. *Journal of affective disorders*. 2018 Oct 15;239():214-219. doi: 10.1016/j.jad.2018.05.075.

35. Chen J, Chen C, Zhi S. Retrospective comparison of cognitive behavioral therapy and symptom-specific medication to treat anxiety and depression in throat cancer patients after laryngectomy. *Shanghai archives of psychiatry*. 2014 Apr;26(2):95-100. doi: 10.3969/j.issn.1002-0829.2014.02.006.

36. Sheill G, Guinan E, Brady L, Hevey D, Hussey J. Exercise interventions for patients with advanced cancer: A systematic review of recruitment, attrition, and exercise adherence rates. *Palliative & supportive care*. 2019 Dec;17(6):686-696. doi: 10.1017/S1478951519000312.

37. Tinker SC, Reefhuis J, Bitsko RH, Gilboa SM, Mitchell AA, Tran EL, Werler MM, Broussard CS, National Birth Defects Prevention Study. Use of benzodiazepine medications during pregnancy and potential risk for birth defects, National Birth Defects Prevention Study, 1997-2011. *Birth defects research*. 2019 Jun 1;111(10):613-620. doi: 10.1002/bdr.21497.

38. Soto-Vásquez MR, Alvarado-García PA. Aromatherapy with two essential oils from Satureja genre and mindfulness meditation to reduce anxiety in humans. *Journal of traditional and complementary medicine*. 2017 Jan;7(1):121-125. doi: 10.1016/j.jtcme.2016.06.003.

39. DeMartino ES, Braus NA, Sulmasy DP, Bohman JK, Stulak JM, Guru PK, Fuechtmann KR, Singh N, Schears GJ, Mueller PS. Decisions to Withdraw Extracorporeal Membrane Oxygenation Support: Patient Characteristics and Ethical Considerations. *Mayo Clinic proceedings*.

2019 Apr:94(4):620-627. doi: 10.1016/j.mayocp.2018.09.020.

40. Siegle A, Villalobos M, Bossert J, Krug K, Hagelskamp L, Krisam J, Handtke V, Deis N, Jünger J, Wensing M, Thomas M. The Heidelberg Milestones Communication Approach (MCA) for patients with prognosis {12 months: protocol for a mixed-methods study including a randomized controlled trial. *Trials.* 2018 Aug 14;19(1):438. doi: 10.1186/s13063-018-2814-1.

41. Goertz CM, Salsbury SA, Long CR, Vining RD, Andresen AA, Hondras MA, Lyons KJ, Killinger LZ, Wolinsky FD, Wallace RB. Patient-centered professional practice models for managing low back pain in older adults: a pilot randomized controlled trial. *BMC geriatrics.* 2017 Oct 13;17(1):235. doi: 10.1186/s12877-017-0624-z.

42. Ward WL, Shaffer LA, Testa EG. Pediatric Psychologists' Collaboration in a National Pediatric Obesity Initiative: A Case Study in Interprofessional Collaboration. *Journal of clinical psychology in medical settings.* 2018 Dec;25(4):367-389. doi: 10.1007/s10880-018-9540-4