

## POSITION STATEMENT

# Indian Society of Critical Care Medicine and Indian Association of Palliative Care Expert Consensus and Position Statements for End-of-life and Palliative Care in the Intensive Care Unit

Raj K Mani<sup>1</sup>, Sushma Bhatnagar<sup>2</sup>, Savita Butola<sup>3</sup>, Roop Gursahani<sup>4</sup>, Dhvani Mehta<sup>5</sup>, Srinagesh Simha<sup>6</sup>, Jigeeshu V Divatia<sup>7</sup>, Arun Kumar<sup>8</sup>, Shiva K Iyer<sup>9</sup>, Jayita Deodhar<sup>10</sup>, Rajani S Bhat<sup>11</sup>, Naveen Salins<sup>12</sup>, Raghu S Thota<sup>13</sup>, Roli Mathur<sup>14</sup>, Rajam K Iyer<sup>15</sup>, Sudeep Gupta<sup>16</sup>, Priyadarshini Kulkarni<sup>17</sup>, Sangeetha Murugan<sup>18</sup>, Prashant Nasa<sup>19</sup>, Sheila N Myatra<sup>20</sup>

Received on: 01 February 2024; Accepted on: 05 February 2024; Published on: xx xx xxxx

## ABSTRACT

End-of-life care (EOLC) exemplifies the joint mission of intensive and palliative care (PC) in their human-centeredness. The explosion of technological advances in medicine must be balanced with the culture of holistic care. Inevitably, it brings together the science and the art of medicine in their full expression. High-quality EOLC in the ICU is grounded in evidence, ethical principles, and professionalism within the framework of the Law. Expert professional statements over the last two decades in India were developed while the law was evolving. Recent landmark Supreme Court judgments have necessitated a review of the clinical pathway for EOLC outlined in the previous statements. Much empirical and interventional evidence has accumulated since the position statement in 2014. This iteration of the joint Indian Society of Critical Care Medicine–Indian Association of Palliative Care (ISCCM–IAPC) Position Statement for EOLC combines contemporary evidence, ethics, and law for decision support by the bedside in Indian ICUs.

**Keywords:** Compassionate care in the intensive care unit, End-of-life care, End-of-life care communication, End-of-life decision making, End-of-life care foregoing of life support, withdrawal and withholding ethics, Legal issues in end-of-life care, Palliative care, Terminal care.

*Indian Journal of Critical Care Medicine* (2024): 10.5005/jp-journals-10071-24661

## ABBREVIATIONS USED IN THIS ARTICLE

ACP = Advance care planning; AMD = Advanced medical directive; cDCDD = Controlled donation after circulatory determination of death; CPR = Cardiopulmonary resuscitation; DNAR = Do not attempt resuscitation; EOLC = End of life care; FLST = Foregoing of life-sustaining treatments; GOC = Goals of care; HIC = High-income country; IAPC = Indian Association of Palliative Care; ICU = Intensive care unit; ISCCM = Indian Society of Critical Care Medicine; LAMA = Left against medical advice; LMIC = Low-middle-income country; LST = Life-sustaining treatments; MDFM = Multidisciplinary family meeting; MV = Mechanical ventilation; NBT = Non beneficial treatments; PC = Palliative care; PMB = Primary Medical Board; PTSD = Post traumatic stress disorder; QOL = Quality of Life; SDM = Shared decision-making; SMB = Secondary Medical Board; SQ = Surprise question; TLT = Time limited trial; WD = Withdrawal of life-sustaining treatments; WH = Withholding of life-sustaining treatments.

## INTRODUCTION

*"I was born premature, 4 months early.  
You intubated me, put me on a ventilator,  
because You could...  
It went on for days  
My parents said STOP. The last straw.*

<sup>1</sup>Department of Critical Care and Pulmonology, Yashoda Super Specialty Hospital, Ghaziabad, Kaushambi, Uttar Pradesh, India

<sup>2</sup>Department of Onco-Anaesthesia and Palliative Medicine, All India Institute of Medical Sciences, New Delhi, India

<sup>3</sup>Department of Palliative Care, Border Security Force Sector Hospital, Panisagar, Tripura, India

<sup>4</sup>Department of Neurology, P. D. Hinduja National Hospital & Medical Research Centre, Mumbai, Maharashtra, India

<sup>5</sup>Division of Health, Vidhi Centre for Legal Policy, New Delhi, India

<sup>6</sup>Department of Palliative Care, Karunashraya, Bengaluru, Karnataka, India

<sup>7</sup>Department of Anaesthesia, Critical Care, and Pain, Tata Memorial Hospital, Homi Bhabha National Institute, Mumbai, Maharashtra, India

<sup>8</sup>Department of Intensive Care, Medical Intensive Care Unit, Fortis Healthcare Ltd, Mohali, Punjab, India

<sup>9</sup>Department of Critical Care, Bharati Vidyapeeth (Deemed to be University) Medical College, Pune, Maharashtra, India

<sup>10,13</sup>Department Palliative Care, Tata Memorial Hospital, Mumbai, Maharashtra, India

<sup>11</sup>Department of Interventional Pulmonology and Palliative Medicine, SPARSH Hospitals, Bengaluru, Karnataka, India

<sup>12</sup>Department of Palliative Medicine and Supportive Care, Kasturba Medical College Manipal Academy of Higher Education, Manipal, Karnataka, India

<sup>14</sup>Department of Bioethics, Indian Council of Medical Research, Bengaluru, Karnataka, India

*They finally could...  
If You had known what my future held,  
Would you listen to me on day one?  
Would You stop?"*

Constantinos Kanaris – "A letter to my doctors"<sup>1</sup>

Technology-intensive care at the end of life (EOL), as a default trajectory, is the fallout of advances in medicine coupled with the extant culture of a curative push, regardless of its appropriateness. The Lancet Commission on the value of death delves into the manifold adverse consequences to the dying, the grieving, and indeed the society.<sup>2</sup> In high-income countries (HICs) most die in intensive care units (ICUs) and hospitals under conditions not regarded as "good death" alone-with unwanted and burdensome supports that caregivers would not want for themselves.<sup>3-5</sup> Lately, dignity in death has come to be regarded as a marker of high quality in ICUs.<sup>6</sup> Across ICUs in the USA, UK, and Europe, limitation of life-sustaining treatments (LST) toward death, albeit widely variable, is overall high and increasing.<sup>7-9</sup> Paradoxically, in the low- and middle-income countries (LMICs) including India, both have and have-nots die poorly, due to overtreatment in the former and lack of access to palliative care (PC) overall.<sup>2</sup>

In India, barriers identified to end-of-life care (EOLC) include a lack of attention to the needs of the dying, reluctance to discuss anticipated death or make ethically challenging decisions, physician and organizational concerns over the legality of foregoing of life-sustaining treatments (FLST), family's inability to pay and lack of integration of PC in ICUs.<sup>10-12</sup> A questionnaire-based survey in Asian countries indicated that ICU physicians' practice of FLST in the LMICs (including India) compared to the HICs is hampered by perceived legal risks while curative treatments could be prematurely closed due to financial considerations.<sup>13</sup>

Quality ICU care includes timely and burden-free EOLC for the dying and a supportive environment for the families. Clinicians across European and Israeli ICUs reported frequent occurrences of inappropriate treatment which, according to other studies, varies by the ethical climate in the ICU.<sup>14-16</sup> Such data are unavailable in India, but two large point-prevalence surveys of ICU practice patterns indicate that full support occurs in 75% of deaths and treatment limitations are mostly through "left against medical advice" (LAMA).<sup>17,18</sup> Such unplanned terminal discharges leave the patient without PC and the family without emotional support. Quality of death and dying has not received priority in India, even as the national healthcare policy promotes PC.<sup>19</sup> Consequently, India ranks low globally in the recent expert assessment of the quality of death and dying.<sup>20</sup>

Position statements for the ethical and clinical EOLC guidance in ICU were published earlier by the Indian Society of Critical Care Medicine (ISCCM) and jointly with the Indian Association of Palliative Care (IAPC).<sup>21-23</sup> The present iteration of the ISCCM-IAPC joint statement comes in the wake of recent legal developments in India.<sup>24-26</sup> which establish the legal validity of FLST, simplifying procedures, enabling physicians to provide care in accordance with patients' preferences and best interests. The EOLC clinical pathway outlined here is based on literature review, bioethics, and law. Less evidence-based but clinically relevant position statements were arrived at through a Delphi process.

## METHODS

The interventions included in the position statement were based on a review of the literature; those needing broader Consensus among the Task Force Members (where evidence was lacking or weak) were tested through a Delphi process.

<sup>15</sup>Department of Palliative Care, Bhatia Hospital; P. D. Hinduja National Hospital & Medical Research Centre, Mumbai, Maharashtra, India

<sup>16</sup>Department of Medical Oncology, Tata Memorial Centre, Homi Bhabha National Institute, Mumbai, India

<sup>17</sup>Palliative Care Medicine, Pune, Maharashtra, India

<sup>18</sup>Department of Education and Research, Karunashraya, Bengaluru, Karnataka, India

<sup>19</sup>Department of Critical Care Medicine, NMC Specialty Hospital, Dubai, United Arab Emirates

<sup>20</sup>Department of Anesthesiology, Critical Care and Pain, Tata Memorial Hospital, Homi Bhabha National Institute, Mumbai, India

**Corresponding Author:** Raj K Mani, Department of Critical Care and Pulmonology, Yashoda Super Specialty Hospital, Ghaziabad, Kaushambi, Uttar Pradesh, India, Phone: +91 9811131719, e-mail: raj.rkmjs@gmail.com

**How to cite this article:** Mani RK, Bhatnagar S, Butola S, Gursahani R, Mehta D, Simha S, *et al.* Indian Society of Critical Care Medicine and Indian Association of Palliative Care Expert Consensus and Position Statements for End-of-life and Palliative Care in the Intensive Care Unit. *Indian J Crit Care Med* 2024;x(x):xx-xx.

**Source of support:** Nil

**Conflict of interest:** None

## Task Force

The ISCCM leadership invited Experts from the previous joint position statements committee (SNM, RKM, NS, SI, JVD, PK, and SS) to draft the revised position statement; in addition, new members, experts in their fields, representing IAPC (SB, JD, RT, SB, and SN), neurology (RG), oncology (SG), pulmonology (RB) critical care (AK), research and medical ethics (RM), nursing services (SM) and law (DM) were included; RKM led the task force and with SNM prepared the item list for inclusion in the position statements, and formed subcommittees within the task force to work on them; PN served as the methodologist for the Delphi process used to draft the statements through consensus.

## Literature Search Strategy

A focused search in PubMed for books, documents, original articles, meta-Analyses, and reviews on various areas related to EOLC practices in critically ill patients between 1 January 2003 and 1 August 2023, using the terms "attitude to death" OR "medical futility" OR "prognosis" OR "euthanasia" OR "life support care" OR "ethics, clinical" OR "spiritual therapies" OR "critical pathways" OR "legislation and jurisprudence" OR "communication" OR "palliative care" OR "euthanasia" OR "tissue and organ procurement" OR "documentation" OR "patient advocacy" OR "research" AND "death" OR "palliative care" OR "terminal care", generated 2,127 articles, which were manually reviewed by subcommittees independently for relevance. In addition, 258 hand-searched articles were included. Finally, 335 full-text studies were included. 2,050 articles were excluded (13 were not in English language, 25 were duplicates, and 2012 were not relevant or specific).

## Delphi Process

The three-member steering group (RKM, SNM, and PN), formed to facilitate the Delphi process, draft the survey statements, conduct the Delphi surveys, and prepare the survey reports, was excluded from voting in the Delphi process.<sup>27</sup> The Delphi surveys were conducted using 7-point Likert scale statements via Google

Forms. Each statement in the first round had an open-ended text field for feedback and comments. The responses were anonymized and Delphi rounds were conducted using an iterative process and controlled feedback until all statements achieved stability in responses.

### Consensus and Stability

The consensus criteria was 70% or more members voting in favor of an agreement (scores, 5–7) or disagreement (scores, 1–3) on the Likert-scale statements.<sup>27</sup> The central tendency and response dispersion were expressed as median [interquartile range (IQR)]. The Kruskal–Wallis test was used from round two onward to assess the stability of responses between two consecutive rounds. Statements, deemed unstable ( $p < 0.05$ ), were repeated in the Delphi rounds until the results were stable.

## RESULTS

Twelve Likert-scale statements were tested over three Delphi rounds from 1 November 2023 to 10 November 2023, with 100% participation of the task force members. The reports of the Delphi rounds and consensus process are provided in the supplementary material (Appendix 1).

### Section 1: Consensus Position Statements

- 1.1: Quality of dying is as important as other measures of quality of ICU care.
- 1.2: While discussing transitioning to PC, emphasis should be on the patient's suffering than on the legality of treatment limitation.
- 1.3: Along with terminal illness and impending mortality, severe irreversible disability burdensome to the patient should be included as a reason for a treatment limitation decision.
- 1.4: ICU admission criteria should exclude patients whose disease/clinical status would clearly render ICU care to be of little or no benefit and a trial of ICU care is excluded.
- 1.5: Once an EOLC plan is made for a patient, ICU admission or continuation in ICU is justified in the following circumstances to facilitate
  - Symptom control when it is difficult outside the ICU, having ensured that the goals of care (GOC) are well communicated to the family and caregivers and
  - Deceased-organ donation.
- 1.6: The intensivist must take a leadership role in conducting multidisciplinary team and family meetings.
- 1.7: While conveying available treatment options that may be potentially inappropriate, a “palliative care only” option should also be mentioned as a standard of care.
- 1.8: The following role(s) are appropriate for the healthcare professional in communication and patient care in the context of end of life (EOL): The medical team
  - should initiate serious illness conversations guided by a “checklist,” for setting GOC;
  - should not take unilateral decisions even if an intervention is clearly futile;
  - should provide considered recommendations and not merely provide a menu of options;
  - must not burden the patient/family with the entire onus of taking treatment limiting decisions;
  - must not encourage or suggest the LAMA process when faced with ethical/financial dilemmas;
  - must not impose their own views, but provide facts of the case and available options;
  - must avoid the term “futility” that could be misconstrued as undervaluing the worth of the patient's life.
- 1.9: Withdrawal (WD) and withholding (WH) are ethically similarly grounded and are legally equivalent.
- 1.10: Intensive care professional training should include the following: Competencies in
  - end-of-life (EOL) communication;
  - general PC;
  - the knowledge of biomedical ethics in EOL decision making;
  - the application of the various modalities of treatment limitation.
- 1.11: Every hospital offering intensive care services must have an EOLC policy and standard operating procedure for treatment limiting decision making.
- 1.12: Professional societies must take the lead in spreading death literacy and awareness among the public, healthcare administrators, and the government.

### Section 2: Constituents of a Good Death

As healthcare systems evolve with increasing complexity and depersonalization, discussions around constituents of a good death are increasingly relevant. Although good death is a highly personal, culturally variable notion, shared themes emerge in studies.<sup>28</sup> A systematic review of systematic reviews based on the views of dying patients, bereaved families, and professional caregivers identified 11 components that help define a good death<sup>29</sup> (Table 1). This section aims to explore these perspectives that collectively

**Table 1:** List of constituents of good death described by dying patients, bereaved families and healthcare workers<sup>29</sup>

1. Effective communication and relationship with health-care providers
2. Performance of cultural, religious, or other spiritual rituals
3. Relief from emotional distress or other forms of psychological stress
4. Autonomy with regards to treatment-related decision making
5. Dying at the preferred place
6. Not prolonging life unnecessarily
7. Awareness of the deep significance of what is happening
8. Emotional support from family and friends
9. Not being a burden on anyone
10. Relief from physical pain and other physical symptoms
11. The right to terminate one's life*

\*Voluntary euthanasia, Physician-assisted suicide or medical assistance in death are illegal in India. They are at present legally permissible in 9 countries (Netherlands, Belgium, Columbia, Luxemburg, Canada, Australia, Spain, New Zealand, Switzerland and 11 States in the US (Colorado, Oregon, Maine, New Jersey, California, Hawaii, New Mexico, Washington, Vermont, District of Columbia, Montana)

define a good death, considering medical, psychological, social, and cultural dimensions.

- 2.1: Patient-centered perspectives: A total of 40 peer-reviewed qualitative studies involving older persons identified the following six common elements from dying experience descriptions: Burden, suffering, hope, dignity, decision making, and control and autonomy.<sup>30</sup>
  - 2.1.1: Medical and PC aspects: Palliative care focuses on quality of life (QOL) for individuals with life-limiting illnesses, prioritizing pain, and symptom relief.<sup>31</sup> Early integration of PC leads to improved symptom control and QOL, reducing emotional distress for patients and families (Section 8).<sup>32</sup>
  - 2.1.2: Psychological and emotional well-being: Patients may experience (A) anxiety and fear from uncertainty surrounding death; (B) depression and grief as they confront death; (C) existential distress arising from questions around the meaning of life, afterlife, and legacy. Physicians consider providing emotional support essential to their role.<sup>33</sup>

The solutions identified are open communication about fears, hopes, and concerns of patients; psychosocial and spiritual support given by mental health professionals, counselors, and spiritual guides with or without training in PC (Section 9); advance care planning (ACP), that is, engaging in conversations about EOL preferences; legacy work, that is, helping individuals reflect on and leave behind a meaningful legacy for a sense of purpose, fulfillment, and closure.<sup>34</sup>
  - 2.1.3: Respect for autonomy and dignity: Honoring individual preferences and values empowers patients to make decisions about their EOL journey thereby enhancing dignity.<sup>35–37</sup>
  - 2.1.4: Social support and cultural considerations: Social connections and meaningful interactions are crucial components of a good death.<sup>2,38</sup> Recognizing cultural and spiritual diversity enhances trust.<sup>39,40</sup>
  - 2.1.5: Preferred place of death: Both PC and ACP would enable meeting a person's preferred place of death. Most patients of end-stage kidney disease die in hospitals if they are on a dialysis program but are more likely to die in the preferred place if on a conservative treatment pathway with early referral to PC and home PC.<sup>41,42</sup>
- 2.2: Family-centered Perspectives
  - 2.2.1: Communication and emotional support: Open, timely, and honest communication around prognosis, treatment options, and patient's preferences enabled families to make informed decisions and prepare emotionally.<sup>43,44</sup> Families felt supported and valued when healthcare workers acknowledged their emotional struggles.<sup>45,46</sup>
  - 2.2.2: Physical comfort and symptom management of the patient: Families found comfort in knowing that loved ones were not suffering and passed away peacefully.<sup>47–49</sup>
  - 2.2.3: Presence and meaningful connections: Families valued opportunities to be with loved ones and inclusion in EOL discussions. Families expressed a desire for patients to reflect on their life's meaning, share wisdom, and leave behind a positive impact. Spiritual beliefs and rituals influence families' perceptions of a good death.

### Section 3: Ethical and Moral Dilemmas in End-of-life Care

"Ethics" pertains to a sense of moral right and wrong, what one ought to do, and what one should desist from doing.

Ethical principles in ICU care, embodied in the widely accepted "principlistic" model after Beauchamp and Childress, are autonomy, beneficence, nonmaleficence, and distributive justice.<sup>50</sup>

- 3.1: "Autonomy" means the right to self-determination, that is, the right to exercise one's choice in the manner of medical treatment. Globally and in India, patient autonomy is seen as an inalienable right. The National Medical Commission Code of Ethics mentions "The Registered Medical Practitioner should be respectful of the patient's rights and opinions, communicate clearly... and be honest and transparent in all professional interactions."<sup>51</sup> However, this statement is generally made, making no particular mention of ethics governing terminal care. Acting contrary to a patient's wishes is regarded as battery by Indian law.
 

Respect for autonomy implies physicians must provide opportunity and time for patients to exercise free choice. Patients have the unconditional right to agree to or refuse any intervention including life support, as held by the Supreme Court of India.<sup>24,52</sup> For patients without decision-making capacity, autonomy is protected by patients' wishes expressed in the form of an Advance Medical Directive (AMD), or as expressed by family [section 10] or legally authorized proxy acting on their behalf ("substituted" judgment, i.e., "what the patient would want").<sup>50</sup> Substituted judgment does not imply the personal preferences of the surrogates/proxy.<sup>24</sup> In the *Quinlan* case, the US Supreme Court established the right of refusal of treatments even if lifesaving.<sup>53</sup> Withdrawal of therapy is legally not killing but "allowing the patient to die" of the underlying illness as per their wishes.
- 3.2: "Beneficence" is conscientiously acting in a manner that would promote the patient's well-being. When death appears inevitable, physician's goals should be to allow (to neither hasten nor delay) the dying process, avoid unwanted treatment and unjustifiable financial burdens, and provide timely emotional support. Universally and in India, treatment limitations are regarded as distinct from active euthanasia. Indian law, as in many other jurisdictions, disallows unilateral decision making for treatment limitation.<sup>24,54–57</sup>
- 3.3: "Nonmaleficence" This is subject to varied interpretation, as the same act may be construed as harmful or beneficial depending on circumstances.<sup>57</sup> In the larger sense, it is not limited to acts that may end in physiological harm but those that may cause injury to patients as persons. Drugs used in PC may have unintended but foreseeable harmful effects, which is acceptable by the "doctrine of double effect."<sup>58,59</sup> At all times potential benefits must outweigh potential harms.
- 3.4: "Distributive justice" means that all patients irrespective of their age, gender, religion, race, ethnicity, or station in life should receive similar treatment. In case of resource limitation (major disaster or pandemic) a degree of rationing and prioritization can be allowed subject to auditing. As a corollary to this principle, the physician may prioritize the allocation of resources to a potentially curable patient over another with a progressively irreversible condition.<sup>56,57</sup>
- 3.5: Resolving ethical dilemmas: The following step-by-step structured approach for resolving ethical/moral dilemmas is recommended: (A) defining the problem: For example, is mechanical ventilation (MV)/performing tracheostomy/ cardiopulmonary resuscitation (CPR) worthwhile for the patient? (B) Balance benefits vs. harms; (C) Elicit patient's preferences; (D) Discuss QOL with and without interventions in addition to

longevity; (E) Place it in the context of family and socioeconomic circumstances. Set GOC combining the above.<sup>60</sup>

- 3.6: Ethical questions related to novel technologies: Since these technologies push the limits of technointensive care, the ethical boundaries are harder to grasp. For example, patients on extracorporeal membrane oxygenation (ECMO) support may be undergoing futile support despite maintenance of circulation. Daily rounds are a must asking the crucial questions, "Is ECMO a bridge to recovery or maintaining status quo, preventing death? Setting GOC by integrating patient's values and preferences becomes even more important.<sup>61</sup> Similar dilemmas occur when Implantable cardioverter-defibrillator devices are used, as distressful shocks may no longer be appropriate in the last phase of life.<sup>62</sup> In such a scenario, conversations regarding the deactivation of the device are necessary. The principle of acting always in the patient's "best interests" must be adhered to.
- 3.7: Withdrawal of artificial nutrition and hydration from patients in a persistent vegetative state (PVS) or minimally conscious state (MCS): Although such decisions are based on the rights of PVS/MCS patients, family acceptance can vary widely.<sup>63</sup> In India this was addressed in the *Aruna Shanbaug* judgement,<sup>52</sup> in which it was ruled that "passive euthanasia" in PVS was acceptable if validated by the High Court. Withdrawal of artificial nutrition is allowed in many jurisdictions but is not relevant to the ICU setting.
- 3.8: Role of clinical ethics committee: As observed globally, clinical ethics committees (as opposed to research ethics committees) may prove useful in resolving ethical conflicts. The committee consists of a multiprofessional team of responsible members that reviews and provides an ethical analysis. Ethics committees, usually well received by both physicians and patients/surrogates are associated with reduced ICU length of stay.<sup>64,65</sup>

#### Section 4: Prognostication and Identifying Inappropriateness

The GOC discussion begins with identifying "medical futility" which indicates that limits of curative treatments having been reached, further escalation/continuation of LST would be nonbeneficial or harmful.<sup>66</sup> Futility determination is not strictly objective as it inevitably carries value- and judgment-laden components.<sup>67</sup> Yet, FLST decisions must be made to ensure the timely transition to PC in the patient's best interests.<sup>68</sup> Decisions should be ethically sound, promoting human dignity and general welfare.<sup>69</sup>

Recognition of dying is much delayed in practice. In a National Audit in the UK, most patients were recognized as dying 72 hours or less before death.<sup>70</sup> Delayed diagnosis results in "opportunity costs" of postponing primary attention to clinically important outcomes.<sup>71</sup>

- 4.1: Futility definitions
  - 4.1 (a): Futility is redefined to indicate that desired outcome in terms of both survival and QOL are unachievable or that it merely preserves permanent unconsciousness. Other definitions suggest physiologic futility.<sup>72-74</sup> It suggests a definite shift, not the uncertainty characteristic of critical illness trajectory.<sup>72</sup> To the patient, the word may convey a sense of failure, hopelessness, abandonment, or even "worthlessness."<sup>75</sup>
  - 4.1(b): Alternative terms integrate conflicting ethical considerations suggesting an element of uncertainty.<sup>76</sup>

"Nonbeneficial" conveys a thoughtful omission to intervene. For treatment WD, a stronger word such as "inappropriate" may clarify the premise. The term "futile" may be definitive about "extraordinary" interventions.

Nonbeneficial treatments (NBTs) are common. In a retrospective analysis of data from three Australian hospitals, 12.4% of 831 deaths had NBT.<sup>77</sup> In an interview-based multicentric study, Piers et al. noted that 60% of ICU physicians and nurses reported NBT as common.<sup>14</sup> These data could sensitize the intensivists in India to what could amount to excess treatment in their setting. In another study such treatments were linked to the ICU ethical climate.<sup>15</sup> A meta-analysis of 38 studies showed that 33–38% of patients near EOL received NBTs.<sup>78</sup> In a climate of high-intensity treatment, aggressive interventions are the default trajectory toward EOL, promoted by hospital work culture and dynamics.<sup>16</sup> Therefore, the perspectives of clinicians and administrators could impact the timely recognition of NBT.

- 4.2: Measures to improve diagnostic accuracy: Physician factors that impact prognostication are personal bias, communication skills, and willingness to face moral dilemmas. During prognostic communication, death is mentioned only in one-third of family meetings.<sup>79</sup> Self-fulfilling prophecies are common wherein the prediction of death leads to FLST that fulfills the prediction.<sup>80</sup> Such uncertainties and risks hamper early, open prognostication.

Christakis observed overoptimism among oncologists by a factor of 5 in survival predictions, hampering early GOC determination and ACP.<sup>81</sup> Experience improved the prognostic accuracy of physicians but a stronger doctor-patient relationship lowered it, which highlights the value of second opinions and iterations in prognostication. In a prospective study of cancer patients, inaccuracies in survival prediction highlighted the need for a broader admission policy, supported by a systematic review of predictions in PC.<sup>82,83</sup> While the concept of the time-limited trial (TLT) is not infallible, delayed admission is associated with high mortality.<sup>84</sup> Advances in cancer therapy have led to admissions for full support, TLT, or optimal monitoring.<sup>85</sup> A consensus statement for cancer patients requiring ICU recommends daily joint rounds of intensivists and oncologists.<sup>86</sup>

To get around these pitfalls, all avenues enhancing prognostic accuracy must be explored. The initial assessment identifies clinical scenarios for early PC discussion/referral (Table 2).

- 4.3: General- and disease-specific mortality prediction scores: No scoring system can be relied upon entirely since they convey probabilistic outcome predictions in categories of patients, not individual patients. In chronic obstructive pulmonary disease (COPD), though notoriously difficult to predict meaningful outcomes, scores may inform clinical judgment.<sup>87</sup> Triaging tools such as CrisTAL for hospice care are promising.<sup>88</sup> Acute physiology and chronic health evaluation (APACHE II) is a composite score most used in the ICU setting. In a single center cohort of 981 patients APACHE II, APACHE IV, and SAPS 3 models had good discrimination and calibration predicting in-hospital mortality of cancer.<sup>89</sup> Data that show below 50% survival and below 30% return to baseline health after 6 months in elderly patients requiring 3 day's ICU stay, even with brief periods of LST, help inform shared decision making (SDM).<sup>90</sup>

Day 1 and 4 sequential organ failure assessment (SOFA) scores reflecting disease trajectory may improve mortality

prediction and dependency at 90 days.<sup>91</sup> Disease-specific scores may enable prediction in cancer ARDS, end-stage heart failure, liver failure, and stroke.<sup>92–97</sup> Frailty and comorbidities are quantifiable as risk factors. Lactate kinetics can be used for septic and nonseptic critical states.<sup>98</sup>

Scores identifying patients for PC assessment/transition are powerful tools.<sup>99,100</sup> Palliative prognostic index (PaPI) is validated in cancer in the hospice setting, as are palliative performance scale (PPS) and prognosis in PC study (PiPS).<sup>101,102</sup>

- 4.4: Prognostication and WD decisions in severe acute brain injury: Secondary injury due to raised intracranial pressure is a common feature in severe acute brain injury. These conditions begin acutely or subacutely, with coma [Glasgow coma scale (GCS) <8], sustained beyond 6 hours] and usually need intubation during the initial period. A subset of these patients will satisfy criteria for brain death, usually within a week. Multimodal monitoring may improve outcomes, but mortality has probably not changed.<sup>103,104</sup> Common long-term concerns include the quality of neurologic recovery, incapacitation, and dependence. Clinical, not neuroradiologic or electrophysiologic parameters are paramount for such prognostication.<sup>105</sup> The simple but crucial indicators are etiology, patient's age, duration of coma and comorbidities. Neurologic assessment is crucial since involvement of the upper brainstem and diencephalon marks a "tipping point" beyond which recovery of functional independence is unlikely.<sup>106</sup> None of the conditions listed above are amenable to application of prognostic scales as shown in a gap analysis.<sup>107</sup>
- 4.5: Clinician intuition and impression—the surprise question: Clinician intuition alone has variable reliability as a predictor. Answering the "surprise question" (SQ) ("yes" to the question "would you be surprised if the patient were alive 6–12 months from now?") is much explored.<sup>108,109</sup> In a large cohort of patients, the superiority of PC screening tool over intuitive assessment was demonstrated.<sup>110</sup> In a meta-analysis, SQ performs poorly to modestly predicting death, performing worse in noncancer illnesses.<sup>111</sup> Combining SQ with objective prediction scores appears advantageous.<sup>110,112</sup> Integrating patient's values and preferences is the model of SDM.<sup>113</sup> Recently, the use of large patient databases [Multiparameter Intelligent Monitoring in Intensive Care II (MIMIC II)]<sup>114</sup> and machine learning, mining all of the patients' clinical data promises greater prognostic precision.
- 4.6: Factors associated with FLST decisions: Qualitative assessments predominate in treatment limiting decisions.

Disease severity, treatment failure, imminent death, premorbid dependency/functional status, comorbidities, and what patients/surrogates identify as tolerable levels of morbidity are associated.<sup>115–117</sup>

- Summary: Prognostication, a critical point in ensuring patient and family-centered care, is a dynamic process, integrating throughout illness trajectory, general and disease-specific scores, physician judgement and patient's choices, whose precision and usefulness are enhanced through reflective iterations, independent opinions, and interdisciplinary family meetings.

## Section 5: Definitions and Foregoing of Life Support Decisions

- 5.1: Definitions<sup>7,75,118,119</sup>
  - Terminal illness: An irreversible or incurable advanced disease condition from which death is expected in the foreseeable future (around 12 months or less).
  - Withholding of life-sustaining treatment: In the context of terminal illness or prolonged severe functional disability, not initiating or escalating a life-sustaining treatment, either in response to an informed refusal by a patient with capacity, or when without capacity, through a considered decision made in their best interests congruent with a valid advance medical directive/prior expressed wishes in consultation with the family/surrogate.
  - Withdrawal of life-sustaining treatment: In the context of terminal illness or prolonged severe functional disability, stopping or interrupting a life-sustaining treatment, without substituting it with an alternative intervention, either in response to an informed refusal by a patient with capacity, or when without capacity, through a considered decision made in their best interests, congruent with advance medical directive/prior expressed wishes in consultation with the family/surrogate.
  - Best interests: A principle that behooves physicians to ensure that potential benefits of treatments outweigh potential harms or to avoid treatments that serve no therapeutic purpose.
  - Shared decision making: A dynamic exercise in which the healthcare team, for a patient without capacity, undertakes shared decisions with an appointed proxy/family regarding the medical treatment of a patient.

**Table 2:** Triggers to identify patients potentially in need of end-of-life care/palliative care

1. Catastrophic brain injury (traumatic brain injury, massive acute ischemic stroke, intracranial haemorrhage, brain infections, demyelinating diseases, septic encephalopathy) with coma (other than brain death) with poor prospects for meaningful neurological recovery.<sup>106</sup>
2. Critical illness on a background of irreversible severe neurological disability such traumatic quadriplegia or end stage muscular dystrophies.
3. Critical illness on a background of chronic irreversible disorders of consciousness such as advanced dementia/minimally conscious state/permanent vegetative state.
4. Postcardiac arrest anoxic-ischemic injury with Glasgow Motor Score M≤2 and neurophysiological markers of poor prognosis >3 days after return of spontaneous circulation (ROSC) having excluded confounding factors.<sup>116</sup>
5. Advanced or metastatic malignancy with short median survival rates if treatment options are exhausted are declined by the patient
6. Advanced age with declining functional status and frailty or multiple co morbidities where interventions have a low probability of success or are declined by the patient.<sup>75</sup>
7. Acute decompensation of chronic end stage organ failure such as pulmonary, cardiac, renal, or hepatic with low life expectancy and no option of organ transplantation; >= 3 hospitalisations in the last 12 months.<sup>117</sup>
8. Worsening multiorgan failure (eg., SOFA >15) due to acute conditions refractory to a reasonable trial of organ support.
9. Any patient who expresses a desire against aggressive care or a patient without decision-making capacity with previously executed valid AMD declining such care.
10. Any other clinical scenario where the answer to the question "would you be surprised if the patient is alive at the end of 6 months–1 year" is "yes".

- Advance Medical Directives: A written declaration made by a person with decision-making capacity documenting how they would like to be medically treated or not treated should they lose capacity.
- Do not attempt resuscitation (DNAR): A considered decision by the medical team in patient's best interests, in consultation with the patient with capacity, or when without capacity, the family/appointed proxy to not perform CPR in the event of a cardiorespiratory arrest.
- 5.2: Withdrawal and WH of life supporting treatment: Treatment limiting decisions are common in the Global North and increasing.<sup>7,9,120,121</sup> Among the very old ( $\geq 80$  years) admitted to ICUs in 21 European countries, FLST was found in 27.2% of admissions (15% WH and 12.2% WD).<sup>122</sup> Important associated variables were acute admission, frailty, age, and SOFA score. Recently, in a general teaching hospital, medical and unscheduled surgical patients with treatment limitations were older and more severely ill than patients without limitations.<sup>123</sup>

Global variability in FLST was evident in a meta-analysis of 56 publications. Mean prevalence were WD, 0–84.1%; WH 5.3–67.3%. Substantial variability existed between regions, countries, individual ICUs, and individual intensivists.<sup>124</sup> Even in countries with settled laws, poor clinician legal knowledge led to increased legal defensiveness with more potentially unjustified treatment.<sup>125</sup>

In a questionnaire-based study in Asia, physicians from LMIC as opposed to HIC were less likely to limit CPR, MV, vasopressors and inotropes, tracheostomy, and hemodialysis.<sup>13</sup> The longitudinal OUTCAMERA study showed no escalation of treatment in 26%, WH in 39%, and WD in 35% of patients.<sup>126</sup> The spectrum of treatment limitation modalities too is variable across regions.

In another study, very elderly vs elderly patients had significantly more WH and higher hospital mortality, but similar MV discontinuation strategies, mortality, ICU length of stay, and MV duration.<sup>127</sup> The influence of age on treatment limiting decisions are evident but in conjunction with other factors, not alone.

An Italian prospective multicentre study of quality outcomes in relation to inclination to limit treatment found that centers with below-average inclination for FLST had worse performance in terms of standardized mortality rate indicating that FLST is not against patient interests but is a marker of intensive care quality.<sup>128</sup>

Withdrawal and WH are ethically equivalent by Western bioethical standards, as the premise for both is inappropriateness of LST.<sup>50,56,118,129,130</sup> Although legally equivalent in India, WD is generally the more difficult decision to make and implement.<sup>131,132</sup> Withdrawal being proximate to death can be misconstrued as its cause. Withholding, on the other hand, being an act of omission is not so directly implicated. Every form of treatment limitation is subject to periodic review, and a WD decision may be viewed as a decision to withhold further continuation. Also, WD gives the option of TLT in areas of uncertainty. If WD and WH are regarded differently, either premature closure of active management or continued over-treatment may result.<sup>50,129</sup>

- 5.3: Time limited trials are increasingly common.<sup>133</sup> A quality improvement intervention using TLTs was associated with improved family meetings and reduced ICU intensity and length

of stay.<sup>134</sup> Trials of ICU care lasting 1–4 days may be sufficient in patients with solid tumors, whereas in hematologic malignancy or less severe illness, longer trials seem necessary.<sup>133</sup> When harms from intensive treatment clearly outweighs benefit, TLT is inappropriate.<sup>135,136</sup>

In severe acute brain injury incompatible with independent survival, TLT can extend further. Converting endotracheal intubation to a tracheostomy with a gastrostomy, is a “fork in the road” between further support in the hope of future improvement or transfer to PC and de-escalation.<sup>106</sup> It is easier for the family if the WD decision is framed as WH tracheostomy. Withdrawal in this situation then follows the procedures of palliative extubation. Some of these patients may also be potential organ donors, through the process of Donation after Cardiac Death. [Section 14]

- 5.4: Do not attempt resuscitation directives: The most frequent of WH decisions is to not perform CPR in the event of a cardiac arrest.<sup>137</sup> Cardiopulmonary resuscitation (can be effective for sudden cardiac death but may only prolong inevitable death or result in survival with poor neurological outcomes. The cardiorespiratory arrest is a part of the final stage of dying. Cardiopulmonary resuscitation (is not indicated in most ICU patients and is not a default intervention.<sup>138,139</sup>
- Cardiopulmonary resuscitation (is currently held to be a medical procedure applied only when appropriate.<sup>118</sup> Realistically, only 5% of CPR is performed for sudden cardiac death. Of the rest, resuscitation is successful in only 15–20% for shockable rhythms, and even less for asystolic arrest.<sup>138</sup> Cardiopulmonary resuscitation in ICU patients is beneficial in less than 5%.<sup>140</sup>

Thus, full resuscitation in a terminal state is not acceptable.<sup>137</sup> “Do not attempt resuscitation” is frequent, occurring in at least 50–60% of hospital deaths in a survey of six European countries.<sup>141</sup> In the UK, laws require that patients/surrogates be involved in DNAR decision making.<sup>142</sup> In the USA too, unconsented DNAR is held to be invalid.<sup>143</sup> As a rule, a DNAR decision should be consented to when there is no time pressure.

If CPR is clearly outside of the standard of care, the physician is not obliged to accept a demand by the patient/surrogate.<sup>56</sup> However, in the interest of compassionate care, physicians must discuss DNAR with them.<sup>138</sup>

- 5.5: A “do-not-intubate(DNI) order” for patients of respiratory failure, is separate from a DNAR order. It places a ceiling of aggressive support at noninvasive ventilation or high-flow nasal cannula against intubation when these measures fail. Do-not-intubate order is made when patient/surrogates decline intubation and medically intubation is unlikely to benefit. In a systematic review, one in four cases of noninvasive supports had a DNI decision.<sup>144</sup>

## Section 6: End-of-life Care Clinical Pathway

- 6.1: The pathway to EOLC decision making is depicted in Figure 1.
- 6.2: Discussion of EOLC decision-making pathway (Fig. 1): The EOLC decision making is principally clinician-led and is grounded in ethics, patient's rights, duties of care, and laws of the land. For timely FLST without the risk of premature closure of curative opportunities, it is essential to embed checks and balances in the processes and procedures. The safeguards mandated by the Supreme Court in January 2023 have been incorporated into the ISCCM-IAPC Position Statements. The rigor of decision making

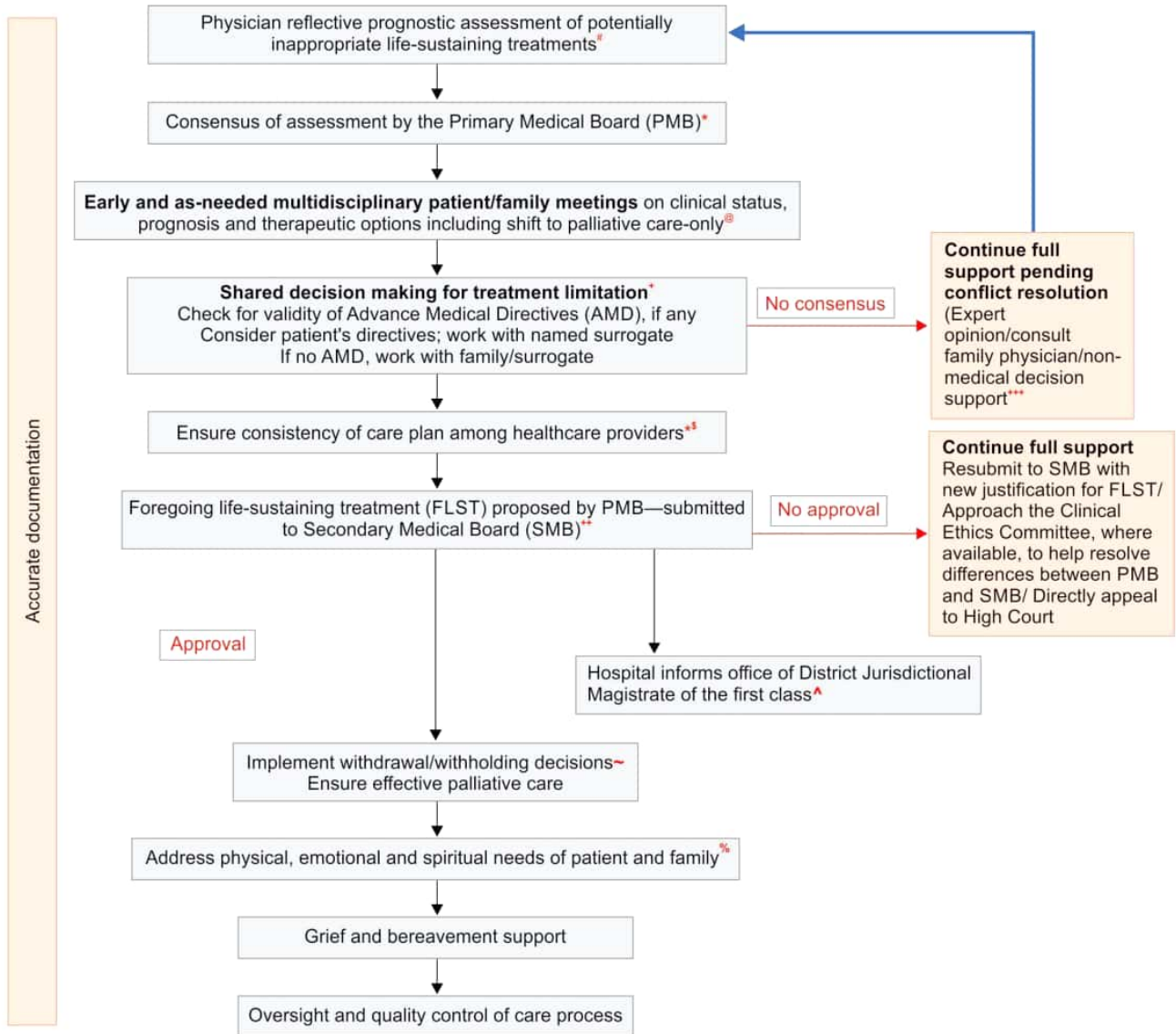


Fig. 1: The EOLC pathway

\*Prognostication is best achieved through objective and subjective assessments

\*The PMB is constituted by the hospital/institution for each case with primary physician and at least two subject experts with ≥5 years' experience. PMB may be from treating team.

®Initial meeting before adverse prognosis apparent to build a relationship of trust. One may use the words "comfort care" in place of PC.

\*Goals of care in patient's best interests are set through combining medical recommendations (beneficence and nonmaleficence) with patient's choices (autonomy).

\*\*\*Family elder/counsellor/independent medical panel/ethics board/religious guide/social worker. \*\*Communication candid, realistic, respectful, and sensitive. Benefits and burdens of each treatment or care option should be explored.

‡Caregiver team should be debriefed after each family meeting.

‡‡Secondary Medical Board constituted by the hospital, has one registered medical practitioner nominated by the CMO and at least two subject experts ≥5 years' experience; PMB member cannot be part of an SMB; CMO-nominated physician may be from the same hospital; No bar on all doctors, in both Boards, being from the same hospital; A standing panel of CMO-approved physicians may be set up in every hospital.

^Only notifying required, not approval.

~Includes DNAR, DNI, nonescalation/de-escalation decisions.

%Prioritizing patient comfort over avoidance of side effects of medication, stopping superfluous tests, monitoring, and therapies, liberalizing visitation, displaying cultural sensitivity, allowing nonintrusive religious rituals, nonabandonment, therapeutic conversations, transfer to location of choice, providing professional caregivers administrative support for complex medical decisions

and compliance with due processes safeguard patients' interests and protect physicians from legal liabilities. EOLC decision making varies globally, yet there exists evidence and consensus

in essential elements<sup>118,145</sup> that inform these Statements. The process outlined is guided by the standard of patient- and family-centricity.<sup>53,146,147</sup>



**Step 1**

- 6.2.1: Physician reflective prognostic assessment of potentially inappropriate life-sustaining treatments.

Combining objective and subjective assessments is more reliable than scoring systems alone (Section 4). Acceptance of uncertainty and allowing time to clear the air are important physician attitudes. Team discussions on projected trajectories of the patient's condition are crucial for prognostic clarity.

**Step 2**

- 6.2.2: Consistency among healthcare professionals: Intensivists and other specialists involved in the care should forge a consensus for the GOC to be proposed to the patient/family. The primary physician, the intensivist, and any other subspecialist(s) involved in the case may form the Primary Medical Board (PMB) as recommended by the Supreme Court (Section 10).

**Step 3**

- 6.2.3: Early and as-needed multidisciplinary patient/family meetings (see also Section 7): In the infrequent instance of a capable patient in the ICU willing to participate in decision making, direct communication with due sensitivity should be attempted. Adult patients with capacity are entitled to refuse initiation or continuation of life support even if it may shorten their life.<sup>24,75,76</sup> On most occasions though, the patient is too ill, incapacitated, or unwilling to participate.<sup>76,148</sup> Ascertain if a valid AMD exists (see Section 10). The legal proxy if any, must be identified and included, if possible, in all family meetings. In the absence of an AMD/proxy, one or more family member(s)/surrogates (defined in Section 10) should be identified as key decision maker(s) for regular engagements.

The first multidisciplinary family meeting (MDFM) should be within 48 hours,<sup>76,145,149</sup> commonly occurring before clinical deterioration,<sup>75</sup> to get to know key members, build trust, provide tentative assessments, and discuss possible therapies and outcomes. From the family is elicited complete information not only of the disease condition and premorbid status but also of the patient as a person. Periodic meetings allow for the disease trajectory to be shared as they occur and for both parties to arrive at clarity. Breaking bad news skillfully and supporting families through grief reaction at the anticipated loss is essential.<sup>150</sup> Treatments discussed must explicitly include the PC-only option.<sup>75,76,117</sup> The initiative for possible transitioning to PC alone must come from the ICU/primary physician.

**Step 4**

- 6.2.4: Shared decision making for treatment limitation decision: For capable and informed patients conveying preferences directly, it is settled ethically and legally that decisions are to be implemented without any further process.

For a patient without capacity, if a valid AMD is in place with LST refusal, it must be respected and implemented (if appropriate in the given circumstances) and conveyed to the appointed proxy and family.

When the situation is not straightforward despite an AMD, "best interests" decisions are made through an SDM with the legal proxy. In the absence of an appointed proxy or AMD, decisions for patients without capacity are made through SDM with the family.

Once the family expresses the wish to know more about the PC-only option, the spectrum of treatment limitation options is discussed (WH, nonescalation, de-escalation, WD). The goal of "good death" may be mentioned, and the meaning it holds to the family drawn out (see Section 2).<sup>23</sup> DNAR is a special category wherein only CPR is not attempted (in the interest of dignity if a meaningful outcome is not realistic) while not limiting any other LST. (Section 5.4).

The treating team must use simple and culturally sensitive language and terms, avoiding jargon. The conversations should be honest, unambiguous, sensitive, and empathetic. Active listening conveys openness and flexibility. Allowing substantial time for family to speak enhances satisfaction (Section 7). SDM is the balancing of physician duties of care (beneficence and nonmaleficence) with patient rights (autonomy).

Through skillful negotiations between the two perspectives, a "best interests" decision can emerge. Thus, these are not just medical best interests but the person's interests in the widest possible sense.<sup>117,151</sup> No assumptions must be made merely based on age, disease condition or socioeconomic status.<sup>145</sup> Financial difficulties may push families to opt for treatment limitation, but decisions must be in the patient's best interests alone. Alternative solutions must be found to reduce costs.<sup>152,153</sup> The physicians must take care to not project their personal preferences and to take an open and noncoercive position in these conversations. Conversations are a powerful way to support families make balanced decisions and prevent conflicts and litigation (Section 7). Clinician-perceived barriers to GOC discussions often point to family's difficulty in accepting poor outcomes.<sup>154</sup> Effective communication with patience and perseverance is key to fruitful discussions.

**Step 5**

- 6.2.5: Ensure consistency of care plan: Care of an ICU patient passes through multiple hands in a 24-hour period. Debriefing of members not participating in the MDFM is essential.<sup>130,148</sup> All staff, whether physician or nurse, must be aware of the care plan and specified FLST. Consistency within the team improves family satisfaction and resilience through the decision-making process.<sup>147</sup>

**Step 6**

- 6.2.6: Approval from secondary medical board: In compliance with the Supreme Court ruling,<sup>25,26</sup> any FLST decision by the PMB should be referred to a secondary medical board (SMB) (Section 10). The Supreme Court directs an expeditious response within 48 hours. In case the decision is approved, the office of the Judicial Magistrate of the First Class of the District should be notified (approval not necessary).

**Step 7**

- 6.2.7: Implement WD/WH decisions: While implementing WD/WH, a PC plan should be in place.<sup>75</sup> Palliative care is best provided (if available) in consultation with a PC specialist or in a PC unit.<sup>155,156</sup> In any case, the intensivist's competencies must include general PC and communication.<sup>157</sup> As noted earlier, ethical equivalency of WD and WH has international consensus.<sup>145,151</sup> It has legal equivalency in India (Sections 5 and 10) with expert consensus for ethical equivalence (consensus statement 1.9) In practice, a stepwise approach to FLST occurs depending on the GOC, from the simple (e.g., DNAR

and stopping antibiotics) to the more difficult (e.g., stopping vasopressors and withdrawing MV).<sup>157</sup>

Withdrawal (especially of ventilation and dialysis) needs special skill as for any critical care procedure. Physicians must prepare the family for what they will witness, address concerns, and support those present during the procedure.<sup>130</sup> One senior member of the team must oversee the process and be present for the family. A slower "terminal weaning" may appear less abrupt than terminal extubation but it is not ethically required and may prolong distress.<sup>155</sup> In a recent prospective observational study, no differences in the psychological welfare of relatives were noted comparing terminal extubation and weaning.<sup>158,159</sup> To avoid masking distress, neuromuscular blocking agents should not be initiated, or if administered earlier, their effects should have worn off before the WD procedure.<sup>117,130</sup> Anticipatory analgesia and sedation are recommended before airway removal.<sup>150,155</sup> Invasive ventilation must not be routinely replaced with noninvasive ventilation after WD (Section 8).

#### Step 8

- 6.2.8: Address physical, emotional, and spiritual needs of the patient and family: Monitoring for physical symptoms and titration of doses is imperative (section 8). Emotional and spiritual/existential pain must be mitigated (section 9).<sup>150</sup> Discontinue routine activities burdensome for the dying patient. Focus on managing anxiety, depression, and delirium, allow family presence and involvement in care through liberal visiting hours, and promote sleep (Section 8; Table 7). If possible, the patient should be moved to a private room or a relatively quieter part of the ICU.<sup>130</sup>

#### Step 9

- 6.2.9: Grief and bereavement support: The presence of physicians at the time of death is supportive. Education of caregiving teams for bereavement support is helpful, offering distressed family members the opportunity to address queries or simply for support.<sup>130</sup> Posttraumatic stress disorder (PTSD) or complicated grief can be reduced through thoughtful care and good communication.<sup>159</sup> In a recent study, online information on critical illness did not reduce PTSD in family members.<sup>160</sup> Administrative staff may consider sending condolence letters/ make enquiries after death for bereavement support and check for complicated grief.

#### Step 10

- 6.2.10: Oversight and quality control of care process: A clinical ethics committee including Director/Chief Administrator or equivalent, or nominee; a senior medical practitioner, with expertise in EOLC; one senior medical practitioner, with relevant expertise in EOLC, to be nominated from outside the healthcare establishment; a legal expert, and a social worker, may be constituted for protocols, audit, oversight, and grievance redressal.

### Documentation

All MDFM, final consensus, and PMB and SMB decisions should be recorded in case notes with signatures of team members and family members/proxies. Alternatively, standardized forms may be used that are duly completed and filed (Section 11).

### Section 7: Communication in End-of-life Care

Essential elements in physician–patient/family relationships include verbal and nonverbal communication, information sharing, empathy, and participatory decision making.<sup>161</sup> Communication is a core competency for certification in critical care, yet, unmet informational and emotional needs among patients are common since timely and honest serious illness conversations are infrequent.<sup>162–164</sup> There are several reasons why communication is regarded as an essential intervention in the ICU (Table 3).

- 7.1: Correlates of good communication: Communication is central to humanizing medical care in a fraught environment. Up to 70% of family members experience anxiety, depression, and PTSD, the so-called postintensive care syndrome family.<sup>165,166</sup> Family satisfaction correlates with the adequacy of time during family meetings; physician behaviors that are not overly directive; receipt of information of clinical status and prognosis and attention to concerns and emotional support.<sup>167,168</sup> Communication assuages emotional distress, empowers families for EOL decisions, improves goal-concordant care, reduces healthcare-worker moral distress, fosters team spirit, reduces burnout and intention to leave.<sup>164,168–173</sup> Nonverbal communication such as eye contact also correlates positively.<sup>174</sup> Audio– tape analysis of family meetings reveal missed opportunities on the part of physicians to achieve patient- and family-centered goals.<sup>175</sup> In EOL discussions frequently reported barriers are patient/family-related emotional and cognitive processes such as protective buffering or belief in positive thinking.<sup>176</sup> Open discussion and ACP reduce anxiety among patients, PTSD among family, ICU, and aggressive treatment utilization with increased use of advance directives and DNAR.<sup>177</sup>

- 7.2: Consensus recommendations: Recently, a mixed methodology study including a literature review, and opinions of communication experts across professions (teacher, chaplain, firemen, and physicians), followed by a consensus process, identified seven tips for good communication: preparation; presence; uninterrupted attention; connecting to a story; understanding patients in their socioeconomic context; agreeing on important issues; negotiating common ground; summary and the way forward.<sup>178</sup>

Emotional and spiritual support are identified as key domains of PC.<sup>179</sup> Patient-and family-centered decision making, an information booklet, and documented interdisciplinary family meetings with a dedicated meeting area were other domains.

- 7.3: Communication training: Clinical experience alone does not resolve the problems in communication, but structured training does.<sup>180,181</sup> Patient-centered communication is perceived as time-consuming but at least one study refutes this.<sup>182</sup> In this study, the median time for an HIV patient was 15.27 minutes. It was also revealed that longer durations may reflect inefficient utilization of time. Another study showed that communication training reduced the time required.<sup>183</sup> Results of a survey of Indian intensivists revealed gaps in basic and advanced communication skills that foster SDM.<sup>184</sup> Training must be structured according to Setting, Perception, Invitation, Knowledge, Emotions, Summary (SPIKES) for breaking bad news; Name, Understand, Respect, Support, Explore (NURSE) to address emotion; and Value family statements, Acknowledge emotions, Listen, Understand patient as a person, Encourage questions (VALUE) to facilitate family meetings.

**Table 3:** Reasons for communication intervention in EOLC

1. To elicit complete information from the family/surrogates, ie, history of the illness since patients are often too ill to be able to speak for themselves.
2. To build trust and confidence with patients and families essential to providing emotional support.
3. For conveying prognostic information ensuring family's comprehension and goal-concordant care.
4. To break bad news tactfully.
5. To elicit the patient's values and wishes from family/surrogates to initiate conversations around GOC in patients facing terminal illness.
6. To accomplish shared-decision-making for FLST decisions.
7. So far as possible to prevent or resolve conflicts with families.
8. To resolve conflicts within the treating team.
9. To provide colleagues a supportive climate to foster professional integrity and satisfaction preventing burnout.

FLST, foregoing of life-sustaining treatments; GOC, goals of care

**Table 4:** Suggested word/phrase choices in EOL communication<sup>185</sup>

<i>Situation</i>	<i>Don't-say</i>	<i>Do-say</i>
Warning Shot, ask permission to proceed	I am going to be frank; you must be strong and face it.	I wish I had more positive updates for you - Are you okay with me going ahead and sharing some vital information with you?
When faced with big emotions while breaking bad news	Calm Down, please relax, control your emotions, be strong	I can understand this is a distressing time. It is okay to take a pause for a few moments. (offer non-verbal support, use silence) Is it okay for me to proceed with the update
	I know how you feel. I understand how you feel	I cannot imagine how difficult this time is for you. We are here to support you through this difficult time
	He/she has given up, there is nothing we can do if a patient doesn't want to fight. (Avoid war/fight/fighter metaphors)	He/she has been through a lot. We can ensure he/she does not experience too much distress at the end of life as death seems imminent. (Use difficult journey metaphors instead)
Talking about treatment limitation	We can withdraw/withhold care	We do not stop caring, we will only stop/not start a machine that is not going to help
	There is nothing more we can do.	In this situation, we can do whatever is best for relieving pain and suffering, making it easier for him/her in the last phase
	We can stop escalating treatment	We need not add treatment if they are not going to help
In a situation where decisions about withdrawing/withholding LST, patient unable to participate in decision making	So, what do you want to do now? Intubate/ Not intubate. Dialyse/Not dialyse, Operate/ Not operate?	In this situation, based on patient's stated wishes - what would they choose as a preferred treatment option-use machines or only things for comfort? In this situation, given that you have not had any discussions with patient about what he/she would want, but based on how well you know him/her as persons what do you think he/she would prefer to do?
Documentation (Minimise guilt or trauma experienced by caregivers when they sign DNAR forms/ documents where they feel responsible for 'pulling the plug' or stopping treatment).	Tell family their choice of WD/WH of LST is their own responsibility. "doctors can only give you an option, its up to you to take it or leave it"	Tell the family the decisions for the patient is being taken together only thinking of what is best for him/her. So will jointly sign on the decision.

- 7.4: Word choices: It is very important to convey meanings clearly, minimizing risks of misinterpretation (Table 4). Often the opportunity to convey empathy is missed by not using the right words or phrases.<sup>185,186</sup> In a wedged-cluster randomized controlled trial (RCT) using interprofessional family support teams, surrogates' emotional burdens were similar but the quality of communication and patient- and family-centeredness rated by surrogates were better, and the ICU length of stay shorter.<sup>187</sup> Good communication between colleagues is similarly associated with reduced ICU clinician burnout.<sup>188</sup>
- 7.5: Conduct of the multidisciplinary family meeting: Conversation in the ICU is a process, one may not achieve a "conclusion" in a single sitting.<sup>150</sup> Consensus opinions of experts and trainers have identified core competencies in MDFM (Table 5).<sup>185,189-191</sup> Best case/worst case scenario-based discussions are useful tools for conveying prognosis in high-risk acute conditions (such as trauma and surgery).<sup>192</sup>

**Table 5:** Conduct of a multidisciplinary family meeting

<p>At the first meeting</p> <ul style="list-style-type: none"> <li>• Have a suitable meeting place</li> <li>• Ensure all relevant people attend the meeting</li> <li>• Have enough time with minimal interruptions</li> <li>• Use vernacular where necessary</li> <li>• Build a relationship</li> <li>• Value and respect patient/family</li> <li>• Take care of nonverbal communication<sup>174</sup></li> <li>• Gather information. Connect to the story. Talk less, hear them out.</li> <li>• Allow expression of concern</li> <li>• Identify and support emotion. Talking freely helps families</li> <li>• Provide information tactfully in non-technical language. Provide treatment options. Open conversations about the patient as a person and values.</li> <li>• Be empathetic. Be kind</li> <li>• Convey and discuss uncertainties. Recognize end of life needs early</li> <li>• Avoid focusing on numbers and statistics</li> <li>• Outline a plan making sure it is understood.</li> </ul> <p>At subsequent meetings</p> <ul style="list-style-type: none"> <li>• Ask-tell-ask at the beginning (ask what they know, then clarify, ensure they have understood)</li> <li>• Update status. More frequently if things are not going well.</li> <li>• Allow expression of concern</li> <li>• Identify and support emotions</li> <li>• Ask-tell-ask</li> <li>• Summarise and way forward</li> </ul> <p>Breaking bad news (Disclosure of unfavourable information)</p> <ul style="list-style-type: none"> <li>• Use the SPIKES* protocol<sup>144</sup></li> <li>• EOL discussions and decision-making [Section 6]</li> </ul>
--

\*Six steps: Setting up; Perception; Invitation; Knowledge and Information; Emotions and Empathy; Strategy and Summary. Mention death as a possibility without using euphemisms. Open further discussions on patient as a person, his/her values and wishes. Inquire if valid AMD or verbally expressed healthcare choices exist. Direct family towards "substituted judgment." Set goals. Discuss comfort care options. Allow argumentation to take place and evolve<sup>#</sup>. Negotiate time-limited-trials and FLST. Reassure continued care and non-abandonment. <sup>#</sup>Source: Akkermans A, Prins S, Spijkers AS, Wagemans J, Labrie NHM, Willems DL, et al. Argumentation in EOL conversations with families in Dutch intensive care units: A qualitative observational study. *Intensive Care Med* 2023;49(4):421–433. DOI: 10.1007/s00134-023-07027-6

Communication is best initiated by ICU physicians; PC specialists may come in subsequently.<sup>193</sup>

- 7.6: New approaches: Platforms beyond the traditional, many of which came into use during the COVID-19 pandemic, including family-accompanied rounds, bedside or telephone updates, and electronic family portals may be helpful.<sup>194</sup> An integrated model may improve interaction.

### Summary

Communication in EOLC is established as a core competency in the ICU. Evidence points toward improved patient, family, and caregiver outcomes with structured training.

### Section 8: Palliative Care in End-of-life Care: Symptom Management (Table 6; Appendix 2)

Cicely Saunders included physical, psychological, emotional, and spiritual pains ("total pain") as therapeutic targets.<sup>195</sup> Relieving distressing symptoms, a key component of critical care comes to sharp focus in EOLC.<sup>196</sup> The commonest symptoms are pain, breathlessness, death rattle, agitation and nausea, and vomiting.<sup>197</sup> Palliative care aims to improve the QOL of patients, families, and caregivers and even length of life.<sup>198,199</sup>

- 8.1: "Pain" can be managed by using the WHO Analgesic Ladder, combining drugs stepwise by severity, supplemented with other therapies.<sup>200</sup> Assess severity with evidence-based scales.<sup>200</sup>

- 8.2: Dyspnea (found in 17–47%) assessed by standardized scales is mitigated by optimizing positioning and sometimes by oxygen and noninvasive support.<sup>201</sup> Benefits and burdens of oxygen therapy in terminal breathlessness need careful evaluation. Delirious patients may find masks uncomfortable and "suffocating."<sup>198</sup> Low-dose opioids are effective and safe in controlling chronic dyspnea.<sup>202</sup>
- 8.3: The bedside PC decisions that usually accompany an FLS decision are as follows:
  - 8.3.1: Anticipation and prevention of new symptoms and preparing the family (e.g., to prevent/prepare for death rattle and terminal restlessness).
  - 8.3.2: Discontinue "routine" and point-of-care blood tests, electrocardiogram (ECG) imaging, and continuous monitoring of vital parameters. Moving to a quieter area within/outside the ICU. Visitation hours should be relaxed.<sup>172</sup>
  - 8.3.3: Stop all treatments that are aimed at cure since these are inappropriate such as antimicrobials, thromboprophylaxis/ anticoagulation, antiplatelet therapy, and antilipidemics.
  - 8.3.4: Do not administer albumin, parenteral nutrition, and transfusions.
  - 8.3.5: Consider removing a nasogastric tube to only depend on natural feeding and hydration. Toward the EOL, there is a natural shutting off from appetite.<sup>172</sup> The evidence is unclear whether artificial nutrition affects the length of life in dying

**Table 6:** Symptoms and solutions

Indication/symptom	Treatment
1. Prior to withdrawing During weaning to control visible distress To control breakthrough distress	1. Inj Midazolam 2–4 mg bolus Inj Morphine 5–10 mg bolus followed by continuous infusion 50% of bolus dose/hour Repeat bolus dose/titrate infusion dose
2. Thirst/dry mouth	2. Sips of water/ice cubes to suck; artificial saliva
3. Pain, restlessness	3. Non opioid analgesics, ketamine, cyclooxygenase inhibitors, gabapentine morphine/ fentanyl infusion, titrate dose
4. Nausea	4. Antiemetic drugs
5. Dyspnea	5. Avoid fluid overload; positioning; Oxygen if tolerated; NIV only if it mitigates distress; fan over face; morphine/fentanyl infusion; titrate dose
6. Delirium	6. Haloperidol, clonidine, quetiapen; Humanized ICU environment
7. Anxiety	7. Benzodiazepines Reassurance, listening, conversations, family presence and liberal visitation hours
8. Constipation	8. Bowel management
9. Fear, loneliness, uncertainty, existential distress	9. Therapeutic conversation, Therapist support, spiritual ambience
10. Lack of sleep	10. Reduce noise, minimise vital signs checking, remove monitors, move to a quieter area/room
11. Lack of movement/discomfort, boredom	11. Explore ways to enable movement, passive stretches, music and entertainment

patients. While it may correct symptoms from dehydration, it may cause symptoms from fluid overload.

- 8.3.6: Consider minimizing or avoiding altogether tracheal/throat suctioning to clear secretions if they induce pain and aggravate distress. Step up the use of nonopioid and opioid analgesics, sedatives, antipyretics, and drugs to control agitation titrating to needs.<sup>203</sup> Patient comfort is prioritized over the level of consciousness.

Concerns exist about the risk of hastening the dying process with larger doses of opioids and sedation. Ethically and legally, it is acceptable to use the higher dosage range by the doctrine of “double effect”.<sup>59,130</sup> There is no evidence that when used in the right manner, these drugs precipitate death.<sup>204–206</sup> However, inform the family of possible altered consciousness/noncommunicative state with increased doses of opioids.

- 8.3.7: Alternative routes of medication to the oral route should be considered. Intramuscular (IM) and intravenous (IV) injections may cause pain and distress. Subcutaneous (SC), rectal, and sublingual routes are preferable.<sup>197</sup> Owing to fewer fluctuations in drug levels compared to the IV/IM route, SC is the route of choice when it is difficult orally. Availability of continuous SC infusion pumps is limited in India, but this route is convenient for home use.<sup>197</sup>
- 8.3.8: Substituting noninvasive for invasive ventilation is unnecessary if it does not mitigate distress. Maintaining oxygen saturation or blood gases is no longer a goal.
- 8.3.9: Nausea, vomiting: Analyze the underlying cause. Use a combination of antiemetics as needed.
- 8.3.10: Bladder care must be decided according to patients’ wishes and the family should be given instructions for catheter care if needed.
- 8.3.11: Preference of place of death should be respected as with FLST decisions (Section 6).
- 8.3.12: Allow nonintrusive activity around the patient as per their desire: Music, TV/Tablet, religious rites/chanting, etc. (Section 9).
- 8.3.13: More time should be spent by caregivers on verbal/nonverbal efforts to mitigate emotional/psychological suffering. Take help from a psychologist/psychiatrist for the patient or distressed family (Section 7).

- 8.4: Preparing for death at home: If the patient and family choose death at home, arrange PC provision at home. Prepare an emergency kit; train families to identify symptoms and administer drugs; provide written instructions at discharge; organize telephonic helplines, support from nursing, volunteers, nongovernmental organizations, and patient information leaflets. Local hospitals/village healthcare workers can be helpful. Provide guidance for issues such as death certification, use of mortuary, preservation of the body till the funeral, and registration of death.

### Section 9: Spiritual Support in End-of-life Care

- 9.1: Evidence in global studies: Critically ill patients and families have spiritual needs,<sup>207–209</sup> and spiritual support is a key indicator of comprehensive healthcare delivery.<sup>210</sup> Yet, caregivers do not wish to engage with patients on spiritual matters.<sup>211</sup> Spiritual pain was explored in a hybrid research model that included a literature search of religious works and interviews of patients in oncology ward, PC units, and ICUs.<sup>212</sup> It is a transcendental experience of pain, as a continuum, rooted in human nature. At one end it is deprivation of worldly bonds (oneself, family, others), and at the other the pain of striving to find meaning and one’s origins (God). Identifying this type of pain could improve the quality of care providing healing and hope.<sup>213</sup>

In a cluster randomised controlled trial on EOLC in ICUs, family members’ perception of spiritual care was reported within 24 hours of their loved one’s death.<sup>207</sup> The family satisfaction significantly correlated with spiritual care and involvement of a spiritual care provider, also reiterated in another study.<sup>214</sup>

In a narrative review on the importance of dignity in death in the ICU, culturally sensitive spiritual care was found to be an integral part of PC.<sup>215</sup> Clinicians can use tools such as SPIRIT and HOPE to understand patients’ meaning and purpose in life, interpersonal relationships, and connectedness to a higher power.

Around 70–80% of a cohort of patients with advanced cancer reported at least 1 spiritual/religious need. Those who availed of spiritual support had higher hospice use and less aggressive EOLC.<sup>207</sup> Barriers to spiritual care in the ICU include cursory

**Table 7:** Strategies to address spiritual needs of patients and families

1. Open-ended questions in family conferences
2. Focusing on the humanistic needs
3. Active listening to expressions relating to faith and hope
4. Hearing out empathetically, without imposing one's beliefs
5. Allowing non-intrusive religious rituals/practices, such as poojas, mantras, jaap, music, prayers
6. Facilitating religious counselling by priests/spiritual persons
7. Having a quiet room for families for prayer and meditation

physician exploration of spiritual concerns and underutilization of chaplaincy services.

In another study, as a part of the "Three Wishes" project, clinicians elicited and addressed patient's wishes.<sup>216</sup> Seventy-six family members and 150 clinicians of 70 ICU patients expected to die were interviewed about their perspectives on spiritual care. Spiritual needs were found to be important with distinct components. Identified themes were spiritual goals of peace and comfort, connectedness, personal gifts and memorabilia, and spiritual practices. The ICU specialists do well to engage as PC generalists allowing for personalization of care.

- 9.2: Evidence in Indian studies: First, spiritual concerns were explored among Hindu patients of cancer in a hospice setting in Bengaluru, Karnataka, India.<sup>217</sup> In this qualitative study employing semi-structured interviews, common concerns were the benefit of pooja, faith in God, concern about the future, rebirth, fate, karma, and the inquiry "Why me?" Unlike in the West, loneliness, the need for forgiveness from others, the need to leave a legacy, and religious struggles were not mentioned. A systematic review exploring spiritual needs highlighted the relational, existential, and value dimensions of spirituality, revealing religion to be important.<sup>218</sup> Participants' alignment with existential explanations of suffering that place blame for the illness on themselves suggests models for spiritual care may be different in the Indian context.<sup>219</sup> In a qualitative study about challenges faced by caregivers of terminal patients in the Indian Armed Forces, spiritual distress was an important unaddressed issue.<sup>220</sup>

In a recent scoping review including 14 publications on PC and EOLC in ICUs of low- and middle-income countries, spiritual care was not explored but religion and culture were mentioned as influencing decision making in treatment limitation.<sup>12</sup>

## Summary

Physicians should identify spiritual needs during their conversations with patients and families. Possible interventions in the Indian setting need to be explored. A strategy for spiritual support is outlined in Table 7.

## Section 10: Legal Position on End-of-life Care in India

- 10.1: Fundamental precepts: There are five key legal principles concerning EOLC in India: (A) an adult patient capable of making healthcare decisions may refuse life support even if it results in death; (B) LST may be withheld or withdrawn under certain conditions from persons who no longer retain decision making capacity; (C) AMD that meet specified requirements are legally valid documents; (D) "active euthanasia" is not lawful; and (E) the

provision of pain relief measures that may incidentally shorten life are lawful and do not constitute "active euthanasia."

- 10.2: Source of the law: These principles have been laid down by the SC in a series of judgments.<sup>24,25,52,221,222</sup> There is no specific legislation on EOLC in India, although rules governing clinical establishments in West Bengal recognize the right of patients to execute Advanced Directives.<sup>223</sup> Professional conduct regulations issued by the Indian Medical Council in 2002 stated that euthanasia was unlawful but distinguished it from the WD of supports after brain death.<sup>224</sup> This provision is replicated in the draft professional conduct regulations issued by the National Medical Commission which also includes a directive to the Ethics and Medical Registration Board to draft EOL guidelines.<sup>225,226</sup>
- 10.3: Unique Indian position and evolution of the law: In all countries that were studied for the purpose of these guidelines (Table 8), no explicit legal authorization appears to be necessary to permit FLST from persons who have lost decision making capacity but have not made an AMD. Instead, such situations are usually governed by professional medical guidelines. This is not the case in India, where the Supreme Court, first in *Aruna Shanbaug* and later in *Common Cause*, framed the questions before it in such a way that the legal validity of WD and WH was brought into consideration\* and partly because this was characterized as "passive euthanasia".<sup>227-229</sup>

The peculiar circumstances of the *Aruna Shanbaug* case (patient in a minimally conscious state, disagreement between petitioner and caregivers regarding the discontinuation of feeding) meant that the Supreme Court while recognizing that LST could be withheld or withdrawn, imposed the onerous condition of obtaining the prior approval of the relevant High Court.<sup>52</sup> It is in the backdrop of this case that a Constitution Bench of the Supreme Court was asked to recognize AMD legally in *Common Cause*.

- 10.4: Common cause vs Union of India: This judgement is a landmark one for several reasons. First, in a break with a previous Law Commission report and a draft bill on the care of terminally ill patients, which had rejected AMD for fear of misuse, the Bench recognized them legally, grounding this decision in the Article 21, fundamental right to autonomy, dignity, and privacy.<sup>230,231</sup> Second, it categorically clarified that even where AMD did not exist, LST could be withheld or withdrawn from persons without decision-making capacity and that prohibitions in the Indian criminal law on taking the life of another did not constitute a barrier, when such WH/WD was carried out in good faith.<sup>232,233</sup> This pronouncement was aided by the decriminalization of an attempt to commit suicide through The Mental Healthcare Act, 2017.<sup>5</sup> Third, contrary to the perception among doctors about it being ethically more problematic to withdraw, as opposed to WH, the judgement did not make any foundational distinction between the two.<sup>5</sup>

However, taking its cue from *Aruna Shanbaug*, the Court laid down a procedure for WH and WD with or without AMD, that proved difficult to implement in practice. The procedure required two panels of medical experts to determine whether LST could be withheld or withdrawn and required the prior approval of a Judicial Magistrate of the First Class.

\*One of the questions that the Court framed for consideration was "In a person in a permanent vegetative state, should WH or WD of life-sustaining therapies be permissible or not 'unlawful'?"

<sup>5</sup>Section 115 of the Act states that any person who attempts to commit suicide is presumed to have severe stress and shall not be tried or punished under the Indian Penal Code.

<sup>5</sup>Common cause, Paragraphs 198 and 199 of Chief Justice Mishra's judgement consistently refer to both WH and WD while laying down the procedure.

**Table 8:** Comparative Legal Position on EOL and Advance Medical Directives\*

	United Kingdom	South Africa	Bangladesh	Switzerland	USA (Missouri)	South Korea	Colombia	Australian capital territory	India
Nature of framework governing end-of-life care and advance medical directives <sup>1</sup>	Statute <sup>2</sup> Professional guidance <sup>3</sup>	Professional guidelines <sup>4</sup>	Professional code of conduct <sup>5</sup>	Codified law <sup>6</sup> Professional guidelines <sup>7</sup>	Statute <sup>8</sup>	Statute <sup>9</sup>	Codified law <sup>10</sup>	Statute <sup>11</sup>	Decision of the Supreme Court of India <sup>12</sup> State Rules in West Bengal <sup>13</sup> Professional guidelines <sup>14</sup>
Legal recognition and validity of advance decisions <sup>16</sup>	Yes. <sup>17</sup>	Partial. <sup>18</sup> Advance decisions are not mentioned in legislation, but recognised in professional guidelines.	Unclear. Only reference to "legally entitled decision maker" in the professional guidelines, not to advance decisions. <sup>19</sup>	Yes. <sup>20</sup>	Yes.	Yes. Advance decisions are recognised in the form of advance directives <sup>21</sup> as well as physician orders for life-sustaining treatment (POLSTs). <sup>22</sup>	Yes.	Yes. <sup>23</sup>	Guidelines issued by the Indian Council of Medical Research (ICMR) <sup>15</sup> Yes. The Supreme Court has recognised that advance medical directives are legally valid documents. The ICMR guidelines recognise Do Not Attempt Resuscitation decisions.

(Contd...)

Table 8: (Contd....)

	United Kingdom	South Africa	Bangladesh	Switzerland	USA (Missouri)	South Korea	Colombia	Australian capital territory	India
Requirements related to the execution of advance decisions to refuse life-sustaining treatment <sup>24</sup>	Decisions must be made in writing, signed and witnessed, along with a verification by the person making the decision that it should apply even when life is at risk. <sup>25</sup>	Patients are allowed to appoint a proxy in writing, in general, for all healthcare decisions. <sup>26</sup> Professional guidelines also allow for appropriately drafted, written "living wills" or directives for critical circumstances like permanent comas or terminal illnesses. <sup>27</sup>	No requirement specified.	Patient decrees must be in writing, dated and signed. The fact of their execution and the place they are kept may also be entered on the patient's health insurance card. <sup>28</sup>	Decisions must be in writing, signed and dated. Two or more witnesses aged 18 and above are required if the declaration is not handwritten. <sup>29</sup>	Registering agency must explain matters to the 'preparer' and confirm their understanding before they prepare their advance directive. <sup>30</sup>	Advance decisions take the form of requests submitted by patients to the doctor, which are then included in their medical records.	Written health directions must be signed by the maker and witnessed. The maker and witnesses must all sign in the presence of each other. <sup>31</sup>	Advance directives must be signed, witnessed and attested before a notary or Gazetted Officer. Copies should be handed over to the persons named as surrogate decision-makers, the family physician (if any) and a competent officer of local government. <sup>33</sup>
								Health directions that have not been written are not valid unless witnessed by two health professionals present at the same time. At least one of these must be a doctor. <sup>32</sup>	

(Contd....)



Table 8: (Contd....)

	United Kingdom	South Africa	Bangladesh	Switzerland	USA (Missouri)	South Korea	Colombia	Australian capital territory	India
Role and obligation of healthcare professionals in giving effect to advance decisions <sup>34</sup>	Must be satisfied that the advance decision is valid and applicable. <sup>35</sup> If yes, healthcare professionals are under an obligation to give effect to the decision as if the patient had the capacity to make such decision at the time at which a question about their treatment arises. <sup>36</sup>	Healthcare professionals must respect any valid advance refusal of treatment. <sup>37</sup>	Not applicable.	Obligation to ask patients with capacity about a patient's decision at the time of entry into a medical institution and to document such decision in the patient's dossier. <sup>38</sup>	Declarant must notify attending physicians about their advance declarations. Unless notified otherwise expressly, physician to presume that the declarant was competent while making the declaration. <sup>40</sup>	Doctors in charge may inquire about the registration of POLST or advance statements. In any case, the doctor in charge and a medical specialist should verify the patient's intention and record this outcome. <sup>42</sup>	The physician has an obligation to establish date of death in the absence of euthanasia, communicate it to the patient and register this in the patient's medical record. Patient's competence to understand their medical condition should also be recorded. A psychiatrist or clinical psychologist should evaluate the patient's capacity to make such decisions. <sup>43</sup>	Health professionals must believe, on reasonable grounds, that the person in question has not revoked their direction or changed their decision. <sup>45</sup>	Treating physician must be satisfied that the instructions in the advance medical directive should be given effect to. The physician must inform the persons named as surrogate decision-makers in the advance directive about the nature of the illness, the availability of medical care, consequences of alternative forms of treatment and consequences of remaining untreated. They must ensure that such persons have come to a considered view that withdrawal or refusal of medical treatment is the best choice.

(Contd....)

Table 8: (Contd....)

United Kingdom	South Africa	Bangladesh	Switzerland	USA (Missouri)	South Korea	Colombia	Australian capital territory	India
			Doctors must comply with patient decrees unless they violate the law or there is reasonable doubt that it is based on the patient's free will or still corresponds to their presumed will. Non-compliance with decrees to be documented in patient records. <sup>39</sup>			to be recorded, as must interventions received, including palliative care and symptom management. Once a request has been submitted by a patient and included in their medical records, and such request persists for at least 25 days, or if an advance directive exists, an interdisciplinary scientific committee is activated to make an independent evaluation about giving effect to the request or directive. <sup>44</sup>		Primary Medical Board to be constituted at the hospital where the patient is admitted, comprising the treating physician and at least two subject experts with at least five years' experience. They must visit the patient and certify the withdrawal or refusal of medical treatment in accordance with the advance medical directive. If such certification is given, the hospital must immediately constitute a Secondary Medical Board, comprising one registered medical practitioner nominated by the Chief Medical Officer of the District and at least two subject experts with at least five years' experience who were not part of the Primary Medical Board. They shall visit the hospital where the patient is admitted and decide whether or not to concur with the initial decision of the Primary Medical Board. <sup>46</sup>

(Contd...)

Table 8: (Contd....)

	United Kingdom	South Africa	Bangladesh	Switzerland	USA (Missouri)	South Korea	Colombia	Australian capital territory	India
Principles governing withholding/ withdrawal of life-sustaining treatment in the absence of an advance decision. <sup>47</sup>	Physician should act in the best interests of the patient. <sup>48</sup>	Where there is no advance decision, the senior clinician responsible for the patient's care must make the decision about what course of action would be in the patient's best interests and should consult the patient's authorised representative if such a person was appointed	Must take into account the patient's benefits and wishes, the wishes of the family and the principle of futility of treatment for a terminal patient. <sup>50</sup>	If the patient has not expressed any wishes regarding the medical intervention in question, then the care team is to prepare a treatment plan in consultation with the person entitled to act as a representative. The physician is to provide the representative with comprehensive information regarding the proposed medical measures. Ultimately, the decision on the proposed treatment is to be made – in accordance with the patient's presumed wishes and interests – by the representative. <sup>51</sup>	If the patient is comatose or unable to understand the intention to withdraw nutrition and hydration, the physician must record it, and then the attorney in fact/physician can authorise the withdrawal. The attorney must seek information concerning the patient's medical diagnosis, prognosis, and the benefits and burdens of treatment to the patient. <sup>52</sup>	The law contemplates two scenarios: one, where the patient's intention can be determined, and the other where it cannot. In the first instance, if there are 2 or more identical statements from patient's family members about the patient's intention to terminate/withdraw life-sustaining treatment, then these statements will be verified by the doctor + 1 medical specialist, and then considered as the patient's intention. However, if there are opposing statements from the patient's family members, then the patient's intention will not be inferred.	The family must demonstrate the desire of the patient for the withholding or withdrawal of treatment by filming or writing down the patient's wish. <sup>54</sup>	An individual is entitled to have decisions about a health care matter or a medical research matter made by an attorney— (a) in the way least restrictive of the individual's rights and freedom of action; and (b) only if the exercise of power— (i) is, in the attorney's opinion, necessary and appropriate to maintain or promote the individual's health and wellbeing; or (ii) is, in all the circumstances, in the individual's best interests. <sup>55</sup>	The procedure is set out by the Supreme Court from Paragraph 199.1 onwards. It is the same as the procedure to be followed when there is an advance medical directive, except for the fact that the consent of the next of kin/next friend/guardian should be obtained, rather than that of the person named in the advance medical directive.

(Contd...)

Table 8: (Contd....)

United Kingdom	South Africa	Bangladesh	Switzerland	USA (Missouri)	South Korea	Colombia	Australian capital territory	India
					<p>If the patient's intention cannot be determined at all, the following procedure is observed:                      Unless the doctor + 1 medical specialist determine that the patient did not intend termination/withdrawal of LST, the following people can take decisions:                      1. Legal representative of a minor                      2. Patient's family members unanimously intending to determine to terminate/withdraw life-sustaining treatment and the doctor in charge and medical specialist verify such intention.<sup>53</sup></p>			

(Contd...)

Table 8: (Contd....)

	United Kingdom	South Africa	Bangladesh	Switzerland	USA (Missouri)	South Korea	Colombia	Australian capital territory	India
Resolution of disputes regarding the validity or applicability of advance decisions or in the absence of an advance decision, regarding the withholding of life-sustaining treatment. <sup>56</sup>	Through a Court of Protection under the Mental Capacity Act, 2005.	The professional guidelines refer to the possibility of approaching a court. Where significant disagreement arises about a patient's best interests, health care practitioners should seek a clinical and/or ethical review, independent of the health care team. If this fails to resolve the disagreement, they must seek legal advice on whether it is necessary to apply to the court for a ruling. <sup>57</sup>	Whenever there is disagreement between doctor and patient or between doctor and relatives, the matter should be referred to the ethics committee of the hospital concerned or relevant authority for advice. The court may be approached if the disagreement is not appropriately resolved. <sup>58</sup>	All available resources should be used, including the possibility of ethics support. If no such support is available or it does not help in reaching an agreement, the Adult protection authority may be involved. <sup>59</sup> Decisions of the authority are subject to appeal before the competent court and ultimately subject to appeal in the Federal Supreme Court.	If an attending physician/facility is unwilling to comply with the direction to withdraw or withhold treatment, then they must effect the transfer of the patient to another physician/facility. <sup>60</sup> A healthcare provider cannot be discharged or discriminated against because they refused to honour a healthcare decision due to their religious beliefs or sincerely held moral convictions. <sup>61</sup>	No information available about dispute resolution regarding the validity and applicability of advance medical directives. However, if a doctor refuses to implement a decision to terminate life-sustaining treatment, the head of the medical institution may replace the doctor for such case after consulting the ethics committee, but may not dismiss the doctor. <sup>62</sup>	Unclear about the dispute resolution authority. However, it is clear that physicians or medical institutions can refuse to provide euthanasia to a terminally ill patient, but must guide patients to a place where such requests can be met.	Health professionals have the authority to refuse to give effect to a health directive in prescribed circumstances. <sup>63</sup> In the absence of health directions or advance decisions, aggrieved persons may contact the Public Trustee and Guardian.	If permission to withdraw medical treatment is refused by the Secondary Medical Board, the surrogate decision-makers named in the advance medical directive, or the treating doctor or the hospital staff may approach the High Court through a writ petition under Article 226 of the Constitution of India. <sup>64</sup> Where the Primary Medical Board decides not to follow an advance medical directive, the surrogate decision-makers named in the directive may request the hospital to refer the case to the Secondary Medical Board. <sup>65</sup> Para 199.4. When the Secondary Medical Board does not concur with the opinion of the Primary Medical Board, then the patient's nominee, the family member, the treating doctor, or the hospital staff can approach the High Court for requesting the withdrawal of life support.

(Contd...)

Table 8: (Contd....)

	United Kingdom	South Africa	Bangladesh	Switzerland	USA (Missouri)	South Korea	Colombia	Australian capital territory	India
Distinction in the law between different types of advance decisions (advance medical directives, POLST, DNAR) <sup>66</sup>	No, although the Mental Capacity Act distinguishes between advance decisions to refuse life-sustaining treatment and other advance decisions.	No.	No.	No.	No.	Yes. The law recognises "life-sustaining treatment plans" and "advance statements on life-sustaining treatment" <sup>67</sup> and contains separate provisions for their preparation and registration. <sup>68</sup>	No.	No.	DNAR decisions are included within the Supreme Court's directions on withholding life-sustaining treatment.
Restrictions on withholding or withdrawing life-sustaining treatment. <sup>69</sup>	No.	No.	No.	No.	Guardian may not order termination of nutrition and hydration from an incompetent ward who is neither dead nor terminally ill, but is in a persistent vegetative state. <sup>70</sup>	The law enumerates the kinds of patients from whom life-sustaining treatment may be withheld or withdrawn. These are 'terminal patients,' i.e. cancer, AIDS, chronic obstructive respiratory disease, chronic liver cirrhosis, and any other disease prescribed by the ordinance of the Ministry of Health and Welfare. <sup>71</sup>	This applies to patients in the terminal phase of life.	No.	The Supreme Court's guidelines apply to persons who are "terminally ill and undergoing prolonged medical treatment with no hope of recovery and cure of the ailment." <sup>73</sup>

(Contd...)

Table 8: (Contd....)

	United Kingdom	South Africa	Bangladesh	Switzerland	USA (Missouri)	South Korea	Colombia	Australian capital territory	India
						The law also lists the kinds of treatment that may be withheld or withdrawn: cardiopulmonary resuscitation, hemodialysis, anticancer drugs and mechanical ventilation at the end-of-life which merely extends the duration of the end-of-life process without any curative effect. <sup>72</sup>			
1.									This indicator compares how countries govern end-of-life care and advance medical directives—through codified legislation, judicial decisions, professional guidelines or codes of conduct, or a combination of them.
2.									Mental Capacity Act, 2005.
3.									General Medical Council, Treatment and care towards the end of life: good practice in decision making (15 March 2022); Guidance from the British Medical Association, the Resuscitation Council (UK) and the Royal College of Nursing (3rd edition 2016).
4.									Guidelines for the Withholding and Withdrawing of Treatment issued by the Health Professions Council of South Africa under the Health Professions Act, 1974.
5.									Section 2.3.4.1 on 'Care for the Terminally Ill' in the Code of Professional Conduct, Etiquette and Ethics issued by the Bangladesh Medical and Dental Council under the Bangladesh Medical and Dental Council Act 2010.
6.									The Swiss Civil Code of 10 December, as amended by Adult and Child Protection laws, in force since 2013.
7.									Medical-ethical guidelines and recommendations: Advance directives, issued by the Swiss Academy of Medical Sciences 2017; Medical-ethical guidelines: End-of-life care, approved by the Swiss Academy of Medical Sciences 2013.
8.									Missouri Durable Power of Attorney for Health Care Act, Chapter 459-Declarations, Life Support-For advance directives (specifically, Sections 459.010 to 459.055); Chapter 404-When patient is incapacitated (specifically, Sections 404.800 to 404.872).
9.									Act on Hospice and Palliative Care and Decisions on Life-Sustaining Treatment for Patients at the End of Life 2016.
10.									Ley Consuelo Devis Saavedra [Law 1733 of 2014] and Resolution 1216 of 2015.
11.									Medical Treatment (Health Directions Act), 2006 and Powers of Attorney Act, 2006 (Specifically, Section III).
12.									Common Cause v Union of India (2018) 5 SCC 1.
13.									The West Bengal Clinical Establishments (Registration, Regulation and Transparency) Rules, 2017 (Specifically, Rule 15).
14.									Indian Medical Council (Professional Conduct, Etiquette and Ethics) Regulations, 2002 (Specifically, Regulation 6.7).
15.									ICMR Consensus Guidelines on 'Do Not Attempt Resuscitation' Indian J Med Res 151, April 202, pp 303-310.
16.									This indicator compares whether advance decisions (used as an umbrella term for advance medical directives, living wills, patient decrees, healthcare power of attorney) are recognised as legally valid in the jurisdictions under consideration.
17.									Sections 24-26, Mental Capacity Act, 2005.
18.									Ethical Guideline 8.2.1 states that healthcare practitioners must respect any valid advance refusal of treatment where a patient lacks the capacity to decide.
19.									"The views of his legally entitled decision maker should be solicited where it is impossible to ascertain the views of the patient." (Section 2.3.4.1.d, Code of Professional Conduct, Etiquette and Ethics issued by the Bangladesh Medical and Dental Council).

20. Article 370 of the Swiss Civil Code enables persons 'capable of judgement' to 'specify in a patient decree which medical procedures he or she agrees or does not agree to in the event that he or she is no longer capable of judgement'.
21. Article 12, Act on Hospice and Palliative Care and Decisions on Life-sustaining Treatment for Patients at the End of Life 2016.
22. Article 10, Act on Hospice and Palliative Care and Decisions on Life-sustaining Treatment for Patients at the End of Life 2016.
23. Sections 7 and 18, Medical Treatment (Health Directions) Act, 2006.
24. This indicator compares the procedural requirements to execute advance medical directives across jurisdictions—whether they may be oral or written, to be signed by the executor or any person on their behalf, require witnesses or not, and whether there are any additional requirements like registration, notarization etc.
25. Section 25(6), Mental Capacity Act, 2005.
26. Section 7(1)(a), National Health Act, 2003.
27. Guideline 3.1 and 3.3, Guidelines for the Withholding and Withdrawal of Treatment.
28. Article 371(1) and (2), Swiss Civil Code.
29. Section 459.015 (1), (2), (3) and (4), Missouri Durable Power of Attorney for Health Care Act.
30. Article 12, Act on Hospice and Palliative Care and Decisions on Life-Sustaining Treatment for Patients at the End of Life 2016.
31. Section 8, Medical Treatment (Health Directions) Act, 2006.
32. Section 9, Medical Treatment (Health Directions) Act, 2006.
33. Modified Paragraphs 198.3.1, 198.3.5 and 198.3.6, Supreme Court order dated 24 January 2023 in Miscellaneous Application No. 1699 of 2019.
34. This indicator examines the extent to which healthcare professionals across jurisdictions have been entrusted with determining the validity and applicability of advance medical directives. Validity refers to whether the advance medical directive has been made appropriately, while applicability refers to whether the circumstances in which it is intended to apply have arisen. It also examines the obligations that healthcare professionals have to give effect to advance medical directives once a determination of validity and applicability has been made.
35. Section 26(1), Mental Capacity Act, 2005.
36. Explanatory Note to Section 26, Mental Capacity Act, 2005.
37. Ethical Guideline 8.2.1, Guidelines for the Withholding and Withdrawal of Treatment.
38. Paragraph 8, Medical-ethical guidelines and recommendations: Advance directives, issued by the Swiss Academy of Medical Sciences 2017.
39. Article 372, Swiss Civil Code.
40. Section 459.015, sub-section (2), Missouri Durable Power of Attorney for Health Care Act.
41. Section 459.025, Missouri Durable Power of Attorney for Health Care Act.
42. Article 17, Act on Hospice and Palliative Care and Decisions on Life-Sustaining Treatment for Patients at the End of Life 2016.
43. Article 16, Act on Hospice and Palliative Care and Decisions on Life-Sustaining Treatment for Patients at the End of Life 2016.
44. de Vries, E., Leal Arenas, F.A., van der Heide, A., et al. Medical decisions concerning the end of life for cancer patients in three Colombian hospitals – a survey study. *BMC Palliat Care* 20, 161 (2021). <https://doi.org/10.1186/s12904-021-00853-9>
45. Section 12, Medical Treatment (Health Directions) Act, 2006.
46. Modified Paragraphs 198.4.3, 198.4.4, 198.4.5, Supreme Court order dated 24 January 2023 in Miscellaneous Application No. 1699 of 2019.
47. This indicator is concerned with how decisions regarding the withholding or withdrawal of life-sustaining treatment should be made in the absence of advance decisions.
48. The best interests of the patient are defined in Section 4, Mental Capacity Act, 2005. Section 4(5) of the Act also clarifies that the treating physician must not be motivated by a desire to bring about the patient's death.
49. Ethical Guideline 8.2.2, Guidelines for the Withholding and Withdrawal of Treatment.
50. Section 2.3.4.1.c, Code of Professional Conduct, Etiquette and Ethics issued by the Bangladesh Medical and Dental Council.
51. Paragraph 2.2, Medical-ethical guidelines: End-of-life care, approved by the Swiss Academy of Medical Sciences 2013.
52. Section 404.822, Missouri Durable Power of Attorney for Health Care Act.
53. Article 17, Act on Hospice and Palliative Care and Decisions on Life-Sustaining Treatment for Patients at the End of Life 2016.
54. de Vries, E., Leal Arenas, F.A., van der Heide, A., et al. Medical decisions concerning the end of life for cancer patients in three Colombian hospitals – a survey study. *BMC Palliat Care* 20, 161 (2021). <https://doi.org/10.1186/s12904-021-00853-9>
55. Schedule 1.11 of Powers of Attorney Act 2006.



56. This indicator examines the way in which different jurisdictions deal with disputes relating to the validity and applicability of advance medical directives, as well as disputes generally regarding the withholding or withdrawal of life-sustaining treatment.
57. Ethical Guideline 2.7, Guidelines for the Withholding and Withdrawal of Treatment.
58. Section 2.3.4.1.c, Code of Professional Conduct, Etiquette and Ethics issued by the Bangladesh Medical and Dental Council.
59. Article 373, Swiss Civil Code.
60. Section 459.030, Missouri Durable Power of Attorney for Health Care Act.
61. Section 459.030, Missouri Durable Power of Attorney for Health Care Act.
62. Article 19(3), Act on Hospice and Palliative Care and Decisions on Life-Sustaining Treatment for Patients at the End of Life 2016.
63. Section 11(3), Medical Treatment (Health Directions) Act, 2006.
64. Modified Paragraph 198.5.1, Supreme Court order dated 24 January 2023 in Miscellaneous Application No. 1699 of 2019.
67. Article 2(8) and (9), Act on Hospice and Palliative Care and Decisions on Life-Sustaining Treatment for Patients at the End of Life 2016.
68. Articles 11 and 12, Act on Hospice and Palliative Care and Decisions on Life-Sustaining Treatment for Patients at the End of Life 2016.
69. This indicator examines whether there are any ways in which the withholding/withdrawal of life-sustaining treatment are circumscribed, either in terms of the kinds of treatment that may be withheld/withdrawn, or the medical conditions in which such treatment may be withheld/withdrawn.
70. 760 S.W.2d 408 (Mo.banc).
71. Section 3, Act on Hospice and Palliative Care and Decisions on Life-Sustaining Treatment for Patients at the End of Life 2016.
72. Section 4, Act on Hospice and Palliative Care and Decisions on Life-Sustaining Treatment for Patients at the End of Life 2016.

\*This table compares the position of law on EOL/end-of-life care and advance medical directives in Australia, Bangladesh, Colombia, South Africa, South Korea, Switzerland, the United Kingdom/UK, and the United States/USA. These jurisdictions have been chosen so as to have as globally representative a comparison as possible. Some of these countries, like such as South Korea, Switzerland, and the UK/United Kingdom, have also been chosen because they are known to have well-developed legislation on this subject. The federal nature of government in Australia and the United States means that these issues are governed at the level of provinces and states respectively, which is why we have chosen one each in both these countries. They are not intended to be illustrative of the legal position in other provinces and states. The indicators of comparison have been developed using the Indian legal position and its perception among the medical fraternity as the frame of reference. The Indian position of law is derived through an analysis of Common Cause vs Union of India (2018) 5 SCC 1, read with the order of the Supreme Court dated 24 January 2023 in Miscellaneous Application No. 1699 of 2019. It is discussed in detail at Section 10. The perception of the legal position among the medical community draws on published secondary literature and personal interactions that the authors have had with medical professionals at webinars and workshops on this subject.

- 10.5: Modification of the Procedure in common cause vs Union of India: The unworkability of this procedure was recognized by yet another Constitution Bench in 2023, during an application for clarification/modification of the judgment in common cause.<sup>25</sup> The procedure has now been modified and is largely the same with or without an AMD. The procedure requires the treating physician to determine, in a critically ill patient, whether treatment is likely to effect cure or recovery. If not, the treating physician must determine whether an AMD exists or not. If it does, the physician must also be satisfied with the authenticity of the document. This may be done by referring to digital health records, if any, of the patient, in which the directive may have been incorporated, or by referring to the custodian of the directive.<sup>234</sup>

A key feature of the procedure in *Common Cause* is that the burden of determining the need for treatment limitation does not rest on the treating physician alone but requires consensus among a range of healthcare providers. Initially, the judgment requires a PMB constituted by the hospital to certify whether LST should be withheld or withdrawn. The PMB is to comprise the treating physician and "at least two subject experts with at least 5 years" experience.<sup>235</sup> This allows flexibility to the hospital to bring together a variety of specialists and internists involved in the overall care of the patient.

- 10.5.1: Shared decision making: The judgment contemplates a process of SDM, although the term is not used explicitly. The treating team has an obligation to explain the nature of the illness, the medical treatment available, alternative forms of treatment, and the consequences of remaining untreated. This obligation is owed to the person or persons named in an AMD (proxies), or to the next of kin/next friend/guardian, where such directive does not exist or is not valid. The treating team must also satisfy itself that the persons in question have understood the information provided and have arrived at the decision of WD or WH in an informed way.<sup>236</sup>

The PMB must also visit the patient in the presence of the proxy or next of kin/next friend/guardian, indicating that dialogue between physicians and the patient's representatives is an essential component of arriving at a decision regarding treatment limitation. The court has indicated a preferable initial timeline of 48 hours for the PMB to make its initial evaluation with the patient's representatives, although it should be noted that the process of SDM may require several, iterative rounds of discussion.<sup>236</sup>

- 10.5.2: Definition of next of kin/next friend/guardian: There is no authoritative legal definition of "next of kin" specifically in the context of healthcare decision making. Next of kin/near relative/family/heirs are defined in different ways across different laws from inheritance to guardianship. The most relevant definition is that of "near relative" in The Transplantation of Human Organs and Tissues Act<sup>®</sup> (THOA) but even this, while it includes a variety of relatives, does not specify the order in which they are to be consulted or given preference. Given this legal vacuum, some hospitals such as the All India Institute of Medical Sciences (AIIMS), New Delhi, India have listed a hierarchy of persons who may be approached by the treating team to obtain consent for WD or WH. The persons to be consulted in order of preference are the spouse/de facto

spouse/friend of long-standing, followed by available adult sons and daughters, parents, adult siblings, or any other lineal ascendants or descendants of the patient who are present in the hospital regularly.<sup>237</sup>

- 10.5.3: Safeguards: Once the PMB decides on treatment limitation the hospital must constitute a SMB, also comprising at least three doctors, different from those on the PMB. An SMB must have one doctor who is nominated by the chief medical officer (CMO) of the district. It must also have two other doctors who, like the PMB, are subject experts with at least 5 years' experience, with the recognition that multiple specialties are required in critical illness.<sup>238</sup> There is no bar on all six doctors, in both Boards, being from the same hospital. Hospitals are free to send a list of doctors to the CMO of the district requesting them to be nominated for the purposes of the judgment. Draft orders that are already under consideration by the Odisha State Government contemplate this kind of process for nomination of doctors.<sup>239</sup> The SMB must also visit the patient and decide whether they agree with the opinion of the PMB. Like the latter, it is also desirable that they submit their opinion within 48 hours of the case being referred to them.<sup>238</sup> Finally, the decision to withdraw medical treatment must be communicated by the hospital to the Jurisdictional Magistrate of the First Class before giving effect to it. It is not legally required to wait for approval from the Judicial Magistrate.<sup>240</sup>
- 10.5.4: Dispute resolution: If the PMB refuses to take a decision on an AMD, the person or persons named in the directive may request the hospital to refer the case to the SMB.<sup>241</sup> In cases where there is no directive and the PMB refuses to certify the WD of medical treatment, some categories of persons can petition the High Court for this purpose.<sup>242</sup> These include the treating doctor or hospital staff as well as nominees of the patient or their family members. The same goes for cases where the SMB does not agree with the opinion of the PMB.<sup>243</sup>

## Section 11: Documentation

An accurate documentation of the EOL conversations and decisions ensures transparency and accountability.<sup>75</sup> The following data are considered essential:<sup>75</sup>

- Time and date of meeting(s)
- Person(s) involved in the discussion
- Medical details leading to the decision, including prognosis
- Statement of the patient's wishes and who reported/valid AMD
- Options discussed, the agreed GOC
- Treatments to be withheld/withdrawn
- Treatments to continue
- Whether organ or tissue donation has been requested\* (any requests from the hospital should be delinked from the FLST decision and initiated by a transplant coordinator, not the treating team)
- Signatures of the family member/legal proxy and the medical team (PMB and SMB)

Documenting the patient's current QOL, describing the patient's fears, hopes, and wishes, and clarifying their expectations and preferences in an ACP is recommended.<sup>244</sup> A pre-admission ICU checklist for patients with chronic illness and/or terminal illness

<sup>®</sup>Section 2(i) of THOA defines "near relative" to mean "spouse, son, daughter, father, mother, brother, sister, grandfather, grandmother, grandson, or granddaughter."

\*Only if donation after circulatory determination of death (DCDD) is included in the THOA protocol.

is suggested to initiate GOC communication.<sup>245</sup> A systematic and customized system for the documentation of EOLC is recommended, not limited to purely physical issues or a fixed template.<sup>246,247</sup>

Documentation through all the steps in the EOLC pathway in the case file is essential (Section 6). Suggested standardized formats are as follows:

- The AIIMS guidelines for EOLC,<sup>248</sup>
- BLUE MAPLE,<sup>249</sup>
- Framework by Kumar et al.,<sup>250</sup>
- Sample documents by the ISCCM-IAPC expert group are attached as Appendix 3.

## Section 12: Advocacy for Improving End-of-life Care in India

Advocacy generates awareness among policymakers, providers, and the public about the value of EOLC.<sup>251</sup> Healthcare staff and beneficiaries, as stakeholders, are effective when they directly testify to its need for the public good.<sup>252</sup>

In India, publications promoting EOLC are sparse but growing, with articles on optimizing PC, policy analysis, ethics within the Indian sociocultural milieu, health economics affecting practice; legal grey areas resulting in tacit encouragement of LAMA, stories highlighting patient/caregiver distress from inappropriate referrals and treatment; position statements, barriers to their implementation and the need for education/training of professional caregivers (Table 9).

A professional advocacy group was formed in 2015, End of Life Care India Task Force (ELICIT) (2015), representing three societies—Indian Academy of Neurology (IAN), IAPC, and ISCCM.<sup>253</sup> The first symposium on Death and Dying was held in 2017 and the need for

EOLC reform was signed by citizens from different walks of life—The “Mathura Declaration”. At the same meeting, a citizen's forum was formed—Citizens Action Needed for Dying in Dignity (CANDID).<sup>254</sup>

*Common Cause* generated publications such as the FICCI-ELICIT information guide for doctors and administrators as well as for the public.<sup>255</sup>

The simplified procedure for FLST and AMD by the Supreme Court in January 2023 was followed by a publication describing the current procedure and the need for wider publicity and implementation.<sup>26</sup>

## Section 13: End-of-life Care Research/Research Questions

Research in EOLC has not progressed as much as needed.<sup>256,257</sup> Barriers to research in the field are lack of funding, perception of low scientific value, insufficient institutional support, or low priority in healthcare research.<sup>258–260</sup> Notably, only 6% of 848 original studies were RCTs, and some studies included patients with very short survival.<sup>261,262</sup> Hence, more well-designed EOLC research is urgently needed.

Due care is needed in approaching research subjects in EOLC. Patients may participate based on their willingness to help themselves, future patients, and the researchers.<sup>263–265</sup> Enrolling patients require special attention to their overall needs.<sup>266</sup>

Specific groups needing particular attention are nurses, informal and professional caregivers, and children.<sup>267,268</sup>

See Table 10 for Research Questions for India.

## Section 14: Organ Donation after Circulatory Determination of Death

Organ Donation after Circulatory Determination of Death (DCDD) is a pathway accepted worldwide for its potential to expand the

**Table 9:** Timeline of medical literature to promote EOLC in India

SN	Publication	Summary
1.	Mani RK, Amin P, Chawla R, Divatia JV, Kapadia F, Khilnani P, et al. Limiting life-prolonging interventions and providing palliative care towards the end-of-life in Indian intensive care units. <i>Indian Journal of Critical Care Medicine</i> 2005;9:96–107.	Position statement aimed to minimize inappropriate treatment and optimize palliative care for terminally ill patients in Indian ICUs by standardizing process of FLST. Defined ethical standards for the physician–patient relationship, after reviewing recent medical literature, existing Law and newspaper articles reflecting lay opinion. Included recommendations for goal setting and staff training. Pointed to the need for legislation.
2.	Mani RK. End-of-life care in India. <i>Intensive Care Med</i> (2006) 32:1066–1068.	Highlighted the harm potential of glamorizing high-tech life-saving interventions in terminal illness and the lack of debate around the ethics and legalities of limiting unwanted treatment and FLST; market forces affecting medical practise in the private sector; paternalistic practise; the practise of declaring patients “LAMA” (left against medical advice) instead of communicating poor prognosis and choice of comfort care; stressed the need for creating public awareness, developing professional guidelines and legal recourse for effective legislation.
3.	Butola, S. Inappropriate referrals at the end of life—The existing Indian scenario. <i>Support Care Cancer</i> (2014);22:2219–2222.	Uses patient's stories to highlight inappropriate referrals at the end of life, the avoidable suffering for patients and families due to lack of EOLC and PC and suggests awareness, sensitization, education /training and propagation of clear guidelines.
4.	Mani RK. Coming together to care for the dying in India. <i>Indian J Crit Care Med</i> 2014;18:560–562.	Discusses economics of healthcare affecting patient care; the need to differentiate EOLC from euthanasia; joint decision-making process, exhorting the society and healthcare professionals to come together for seeking legislation.
5.	Iyer S. Challenges in the implementation of “end-of-life care” guidelines in India: How to open the “Gordian Knot”? <i>Indian J Crit Care Med</i> 2014;18:563–564.	Highlights barriers for the implementation of the IAPC-ISCCM joint statement EOLC guidelines; need for awareness and steps being taken for education.

(Contd...)

Table 9: (Contd....)

SN	Publication	Summary
6.	Myatra SN, Salins N, Iyer S, Macaden SC, Divatia JV, Muckaden M, et al. End-of-life care policy: An integrated care plan for the dying: A Joint Position Statement of the Indian Society of Critical Care Medicine (ISCCM) and the Indian Association of Palliative Care (IAPC). <i>Indian J Crit Care Med.</i> 2014;18:615–635.	Joint consensus position statement on EOLC policy for patients dying with an advanced life limiting illness for practical procedural guidelines for limiting inappropriate therapeutic medical interventions and improve the quality of care of the dying within an ethical framework and through a professional and family/patient consensus process, after extensive review of national and international established ethical principles and current procedural practices, incorporating Indian sociocultural, ethical, and legal perspectives.
7.	Macaden SC, Salins N, Muckaden M, Kulkarni P, Joad A, Nirabhawane V, et al. End of life care policy for the dying: consensus position statement of Indian association of palliative care. <i>Indian J Palliat Care</i> 2014; (3):171–181.	A review of Country reports, observational studies and key surveys demonstrating poor EOLC in India. Suggests an EOLC Policy to improve the quality of care of the dying by limiting unnecessary therapeutic medical interventions, providing access to PC, essential medications for pain and symptom control and improving awareness through educational initiatives.
8.	Gursahani R, Mani RK. India: Not a country to die in. <i>Indian Journal of Medical Ethics</i> , 2016;13:30–35.	Brings out complex sociocultural, medical and legal factors impacting the quality of death and need for open discussion and suitable legislation.
9.	Gursahani R, Mani RK, Simha SN. End of Life and Palliative Care in Neurology: Does Autonomy Matter? <i>Annals of Indian Academy of Neurology</i> 2018; 21:239–241.	Stresses on the duty of physicians to ensure for patients the legal right to make choices about their EOLC in accordance with the 2018 SC Judgement and need for awareness in neurologists.
10.	Mani RK, Nagesh SS, Gursahani R. The advance directives and foregoing of life support: Where do we stand now? <i>Indian J Crit Care Med</i> 2018;22: 135–137.	Details the 2018 SC judgment on AMD and FLST, its evolution and shortcomings especially the fact that it referred only to persistent vegetative state, used the confusing term 'passive euthanasia' and prescribed a procedure too complicated to be workable. It recommends legislation and change in terminology and simplifying the procedures prescribed.
11.	Salins N, Gursahani R, Mathur R, Iyer S, Macaden S, Simha N, et al. Definition of terms used in limitation of treatment and providing palliative care at the end of life: The Indian Council of Medical Research Commission Report. <i>Indian J Crit Care Med</i> 2018;22:249–262.	Consensus document on 25 terms and definitions relating to EOLC related to the limitations of treatment and providing EOLC through Nominal Group and Delphi Method.
12.	The Blue Maple document –Salins et al. <i>Pub- Manipal Academy of Higher Education.</i> 2019.	Acronym for "Before Life Ends, Understand and Evaluate the Choice of Medical Treatment Offered: A Methodised Action Plan for Limitation of Life-Sustaining Treatment and End of Life Care". The first document providing detailed procedural guidance for EOLC and limiting LST at institutional level in patients who have advanced or terminal illness.
13.	Draft Model Law On End-Of-Life Care (Draft Bill). <i>Pub: The Vidhi Centre for Legal Policy.</i> 2019. <a href="https://vidhilegalpolicy.in/wp-content/uploads/2019/11/191031_End-of-Life-Care-in-India-A-Model-Legal-Framework.pdf">https://vidhilegalpolicy.in/wp-content/uploads/2019/11/191031_End-of-Life-Care-in-India-A-Model-Legal-Framework.pdf</a>	Collaborative effort by Vidhi entre for legal Policy and ELICIT through a multi professional consultative process to develop a model to facilitate the withholding and withdrawing of life-sustaining treatment advocating legal validity to AMD and FLST in pursuance of patients' fundamental right to die with dignity. The draft bill adopted a rights-based perspective in the Indian context.
14.	R Mathur. ICMR Consensus Guidelines on 'Do Not Attempt Resuscitation'. <i>Indian J Med Res</i> 2020;151:303–310.	Policy document- describes principles for DNAR when there is no realistic chance of success/ meaningful value of CPR; offers an algorithm and format for its implementation; answers FAQs; DNAR decisions to be taken by physicians together with the patient or her/his surrogate; Only pertains to decisions to not perform CPR; WD/WH decisions if indicated are to be taken separately.
15.	Divatia JV. End-of-life Care in the Intensive Care Unit: Better Late Than Never? <i>Indian J Crit Care Med</i> 2020;24:375–377.	A commentary on the need to shift the focus from cure to care for a peaceful end by describing how high tech-ICU interventions can keep patients, even those with little or no chance of meaningful survival, alive for weeks to months, delaying death imposing burdens to patients and significant psycho-social-financial distress to families.
16.	Bhatnagar S, Swagata B, Abhishek K, Gupta R, Sarma R, Yadav HP, et al. Institutional end-of-life care policy for inpatients at a tertiary care centre in India: A way forward to provide a system for a dignified death. <i>Indian Journal of Medical Research</i> 2022;155:232–242.	Describes the process of giving shape to the EOLC Policy at AIIMS, New Delhi, outlines 4 steps needed for good EOLC, identifying potentially non-beneficial or harmful treatment; recommends joint decision making; lays out optimal supportive care and EOLC pathway; outlines the step-by-step process for developing an institutional policy document.

(Contd...)

Table 9: (Contd....)

SN	Publication	Summary
17.	Rao SR, Salins N, Joshi U, Patel J, Remawi BN, Simha S, et al. Palliative and end-of-life care in intensive care units in low- and middle-income countries: A systematically constructed scoping review <i>Journal of Critical Care</i> 2022;71:154115	Examined 30 papers from Asia and Africa to highlight the palliative care in the ICU is understudies in LICs and MICs. Identified 5 main areas of research focus: WD, WH; professional knowledge and skills; patient and family views; culture and context; and costs of care.
18.	Mani RK, Simha S, Gursahani R. Simplified legal procedure for end-of-life decisions in India: A New Dawn in the Care of the Dying? <i>Indian J Crit Care Med</i> 2023;27:374–376.	In Jan2023, The SC delivered an amendment to its 2018 judgement, simplifying the procedure. This paper describes the evolution of legal provisions for AMD,WD/WH decisions in terminal care and stresses the need for wider publicity of the new provisions, advocacy, EOLC education and eventually appropriate legislation as the way forward.
19.	Rao SR, Salins N, Remawi BN, Rao S, Shanbaug V, et al. Stakeholder engagement as a strategy to enhance palliative care involvement in intensive care units: A theory of change approach. <i>J Crit Care</i> 2023;75:154244.	Theory of Change approach was used to facilitate the identification of mechanisms and interventions for PC-ICUs integration. The potential long-term outcomes identified were: fewer deaths in ICUs, LAMA, and inappropriate admissions; increased referrals to PC; and improved patient and family satisfaction.
20.	Myatra SN, Divatia JV, Salins N. Evaluating Determinants of End-of-life Care Provision in Indian Intensive Care Units. <i>Indian J Crit Care Med</i> 2023;27: 299–300.	Reflects on the determinants of PC and EOLC provision in Indian ICUs. Analyzes studies published so far on integrating PC in ICUs and observes that current studies lack methodological rigor and are insufficient to advance this cause. It is an important area of research inquiry requiring well-conducted studies.

Table 10: Suggested research questions for EOLC

1. What is the prevalence of documented treatment limitation practices in Indian ICUs?
2. Data on amount of opiates/sedation used for symptom control targeting objective measures of pain/distress
3. Documenting communication. How is it done in Indian ICUs? What are the missed opportunities for EOLC-related decisions/support?
4. The prevalence of measured anxiety, depression, PTSD, complicated grief among families around death
5. Awareness of the current legal provisions for EOLC among professional groups
6. Quality of dying in Indian ICUs using standard measures such as QODD\*
7. The prevalence and reasons for LAMA in Indian ICUs
8. Survey of preferences towards death among physicians and nurses across India
9. Survey of preferences towards death of elderly Indian population
10. Cost burdens due to inappropriate treatment in ICUs

\*QODD, Quality of death and dying

deceased organ pool currently limited to Brain Death/Death by Neurological Criteria (BD/DNC).

Here, controlled DCDD (cDCDD) will be touched upon since the crucial step for donation through this process is WD. At present, THOA 1994 describes a protocol only for organ donation after BD/DNC. A consensus position statement was recently published in India and efforts are on with policy makers toward developing cDCDD.<sup>269</sup>

Controlled DCDD (category III of the Maastricht classification) requires the absence of spontaneous movement, breathing, and circulation after the “no touch” period, that is, after WD a standard time allowing for the spontaneous return of circulation before death is declared.<sup>270</sup> It should be noted that WD is decided through due process as outlined in the EOLC pathway and includes DNAR.

In the foreseeable future, if a cDCDD protocol is incorporated into the THOA, hospitals could develop systems in offering patients facing death or representing families/proxy opportunity for organ donation via this route. This may also be in response to altruistic requests by the patient/family/proxy. It is a fundamental ethical requirement that the process of counseling for organ donation must be delinked from the decision for WD. Initiation of such discussion follows the completion of the FLST decision making and must be through personnel other than the physicians of the intensive care/treating/transplant team, for example, a transplant coordinator.

## CONCLUSION

Intensive and palliative care must come together for the compassionate and effective care of the dying and their families in the ICU. The amalgamation of scientific evidence, ethical awareness, and supporting Laws can go a long way in achieving these humanistic goals.

## ACKNOWLEDGMENTS

The authors would like to acknowledge Ms Rituparna Padhy (Research Fellow) and Mr Nihal Sahu from the Vidhi Centre for Legal Policy, New Delhi, India for their assistance with the research presented in Table 8.

## ORCID

Raj K Mani  <https://orcid.org/0000-0003-4759-8233>  
 Sushma Bhatnagar  <https://orcid.org/0000-0002-2097-7180>  
 Savita Butola  <https://orcid.org/0000-0003-3732-7157>  
 Roop Gursahani  <https://orcid.org/0000-0002-6092-1595>  
 Dhvani Mehta  <https://orcid.org/0000-0003-3719-8754>  
 Srinagesh Simha  <https://orcid.org/0000-0002-6092-1595>  
 Jigeshu V Divatia  <https://orcid.org/0000-0001-7384-4886>  
 Arun Kumar  <https://orcid.org/0000-0001-6522-007X>

Shiva K Iyer  <https://orcid.org/0000-0001-5814-2691>  
 Jayita Deodhar  <https://orcid.org/0000-0001-9706-6695>  
 Rajani S Bhat  <https://orcid.org/0000-0003-0437-0685>  
 Naveen Salins  <https://orcid.org/0000-0001-5237-9874>  
 Raghu S Thota  <https://orcid.org/0000-0001-8945-2174>  
 Roli Mathur  <https://orcid.org/0000-0002-6029-9062>  
 Rajam K Iyer  <https://orcid.org/0009-0003-2610-9821>  
 Sudeep Gupta  <https://orcid.org/0000-0002-6742-6378>  
 Priyadarshini Kulkarni  <https://orcid.org/0009-0007-0843-4240>  
 Sangeetha Murugan  <https://orcid.org/0009-0002-9478-4645>  
 Prashant Nasa  <https://orcid.org/0000-0003-1948-4060>  
 Sheila N Myatra  <https://orcid.org/0000-0001-6761-163X>

## REFERENCES

- Kanaris C. A letter to my doctors. *Intensive Care Med* 2022;48(1):135. DOI: 10.1007/s00134-021-06543-7.
- Sallnow L, Smith R, Ahmedzai SH, Bhadelia A, Chamberlain C, Cong Y, et al. Report of the Lancet commission on the value of death: Bringing death back into life. *Lancet* 2022;399(10327):837–884. DOI: 10.1016/S0140-6736(21)02314-X.
- Angus DC, Barnato AE, Linde–Zwirble WT, Weissfeld LA, Watson RS, Rickert T, et al. Use of intensive care at the end of life in the United States: An epidemiologic study. *Crit Care Med* 2004;32(3):638–643. DOI: 10.1097/01.ccm.0000114816.62331.08.
- Connors AF, Dawson NV, Desbiens NA, Fulkerson WJ, Goldman L, Knaus WA, et al. A controlled trial to improve care for seriously ill hospitalized patients: The study to understand prognoses and preferences for outcomes and risks of treatments (SUPPORT). *JAMA* 1995;274(20):1591–1598. DOI: 10.1001/jama.1995.03530200027032.
- Gallo JJ, Abshire M, Hwang S, Nolan MT. Advance directives, medical conditions, and preferences for end-of-life care among physicians: 12-year follow-up of the Johns Hopkins precursors study. *J Pain Symptom Manage* 2019;57(3):556–565. DOI: 10.1016/j.jpainsymman.2018.12.328.
- Curtis JR, Engelberg RA. Measuring success of interventions to improve the quality of end-of-life care in the intensive care unit. *Crit Care Med* 2006;34(Suppl. 11):S341–S347. DOI: 10.1097/01.CCM.0000237048.30032.29.
- Prendergast TJ, Claessens MT, Luce JM. A national survey of end-of-life care for critically ill patients. *Am J Respir Crit Care Med* 1998;158(4):1163–1167. DOI: 10.1164/ajrccm.158.4.9801108.
- Braganza MA, Glossop AJ, Vora VA. Treatment withdrawal and end-of-life care in the intensive care unit. *BJA Educ* 2017;17(12):396–400. DOI: 10.1093/bjaed/mkx031.
- Sprung CL, Ricou B, Hartog CS, Maia P, Mentzelopoulos SD, Weiss M, et al. Changes in end-of-life practices in European intensive care units from 1999 to 2016. *JAMA* 2019;322(17):1692–704. DOI: 10.1001/jama.2019.14608.
- Gursahani R, Mani RK. India: Not a country to die in. *Indian J Med Ethics* 2016;1(1):30–35. DOI: 10.20529/IJME.2016.007.
- Barnett VT, Aurora VK. Physician beliefs and practice regarding end-of-life care in India. *Indian J Crit Care Med* 2008;12(3):109–115. DOI: 10.4103/0972-5229.43679.
- Rao SR, Salins N, Joshi U, Patel J, Remawi BN, Simha S, et al. Palliative and end-of-life care in intensive care units in low- and middle-income countries: A systematically constructed scoping review. *J Crit Care* 2022;71:154115. DOI: 10.1016/j.jcrc.2022.154115.
- Phua J, Joynt GM, Nishimura M, Deng Y, Myatra SN, Chan YH, et al. Withholding and withdrawal of life-sustaining treatments in low–middle-income vs high-income Asian countries and regions. *Intensive Care Med* 2016;42(7):1118–1127.
- Piers RD, Azoulay E, Ricou B, Ganz FD, Decruyenaere J, Max A, et al. Perceptions of appropriateness of care among European and Israeli intensive care unit nurses and physicians. *JAMA* 2011;306(24):2694–2703. DOI: 10.1001/jama.2011.1888.
- Benoit DD, Jensen HI, Malmgren J, Metaxa V, Reyners AK, Darmon M, et al. Outcome in patients perceived as receiving excessive care across different ethical climates: A prospective study in 68 intensive care units in Europe and the USA. *Intensive Care Med* 2018;44(7):1039–1049. DOI: 10.1007/s00134-018-5231-8.
- Dzeng E, Batten JN, Dohan D, Blythe J, Ritchie CS, Curtis JR. Hospital culture and intensity of end-of-life care at 3 academic medical centers. *JAMA Intern Med* 2023;183(8):839–848. DOI: 10.1001/jamainternmed.2023.2450.
- Divatia JV, Mehta Y, Govil D, Zirpe K, Amin PR, Ramakrishnan N, et al. Intensive care in India in 2018–2019: The second Indian intensive care case mix and practice patterns study. *Indian J Crit Care Med* 2021;25(10):1093. DOI: 10.5005/jp-journals-10071-23965.
- Mani RK. INDICAPS II: A bird's eye view of the Indian intensive care landscape. *Indian J Crit Care Med* 2021;25(10):1087–1088. DOI: 10.5005/jp-journals-10071-24003.
- Ministry of Health and Family Welfare, Government of India. National Health Policy, 2017 outlines the priorities and targets along with time frames to achieve it in healthcare systems. Available at: [https://www.nhp.gov.in/nhpfiles/national\\_health\\_policy\\_2017.pdf](https://www.nhp.gov.in/nhpfiles/national_health_policy_2017.pdf). Accessed on: 15 November 2023.
- Finkelstein EA, Bhadelia A, Goh C, Baid D, Singh R, Bhatnagar S, et al. Cross country comparison of expert assessments of the quality of death and dying 2021. *J Pain Symptom Manage* 2022;63(4):e419–e429. DOI: 10.1016/j.jpainsymman.2021.12.015.
- Mani RK, Amin P, Chawla R, Divatia JV, Kapadia F, Myatra SN, et al. Limiting life-prolonging interventions and providing palliative care towards the end-of-life in Indian intensive care units. *Indian Journal of Critical Care Medicine* 2005;9(2):96–107. DOI: 10.4103/0972-5229.17097.
- Mani RK, Amin P, Chawla R, Divatia JV, Kapadia F, Khinani P, et al. Guidelines for end-of-life and palliative care in Indian intensive care units: ISCCM consensus ethical position statement. *Indian J Crit Care Med* 2012;16(3):166–181. DOI: 10.4103/0972-5229.102112.
- Myatra SN, Salins N, Iyer S, Macaden SC, Divatia JV, Muckaden M, et al. End-of-life care policy: An integrated care plan for the dying: A joint position statement of the Indian Society of Critical Care Medicine (ISCCM) and the Indian Association of Palliative Care (IAPC). *Indian J Crit Care Med* 2014;18(9):615–635. DOI: 10.4103/0972-5229.140155.
- Reportable. In: The Supreme Court of India Civil Original Jurisdiction. Common Cause vs The Union of India. Writ Petition (Civil) No. 215 of 2005. Available at: [https://main.sci.gov.in/supremecourt/2005/9123/9123\\_2005\\_Judgement\\_09-Mar-2018.pdf](https://main.sci.gov.in/supremecourt/2005/9123/9123_2005_Judgement_09-Mar-2018.pdf). Accessed on: 24 October 2023.
- Reportable. In: The Supreme Court of India Civil Original Jurisdiction. Miscellaneous Application No. 1699/2019. Available at: [https://isccm.org:9001/static/Highlighted-25360\\_2019\\_3\\_504\\_41295\\_Judgement\\_24-Jan-2023.pdf](https://isccm.org:9001/static/Highlighted-25360_2019_3_504_41295_Judgement_24-Jan-2023.pdf). Accessed on: 8 December 2023.
- Mani RK, Simha S, Gursahani R. Simplified legal procedure for end-of-life decisions in India: A new dawn in the care of the dying? *Indian J Crit Care Med* 2023;27(5):374–376. DOI: 10.5005/jp-journals-10071-24464.
- Nasa P, Jain R, Juneja D. Delphi methodology in healthcare research: How to decide its appropriateness. *World J Methodol* 2021;11(4):116. DOI: 10.5662/wjm.v11.i4.116.
- World Health Organization. National cancer control programmes: Policies and managerial guidelines. 2002. Available at: <https://www.who.int/cancer/publications/palliative/en/>. Accessed on: 14 December 2023.
- Zaman M, Espinal–Arango S, Mohapatra A, Jadad AR. What would it take to die well? A systematic review of systematic reviews on the conditions for a good death. *Lancet Healthy Longev* 2021;2(9):e593–e600. DOI: 10.1016/S2666-7568(21)00097-0.
- Steinhauser KE, Clipp EC, McNeilly M, Christakis NA, McIntyre LM, Tulsky JA. In search of a good death: Observations of patients,

- families, and providers. *Ann Intern Med* 2000;132(10):825–832. DOI: 10.7326/0003-4819-132-10-200005160-00011.
31. National Hospice and Palliative Care Organization (NHPCO). Palliative care. 2021. Available at: <https://www.nhpco.org/palliative-care/>. Accessed on: 10 December 2023
  32. Higginson IJ, Evans CJ. What is the evidence that palliative care teams improve outcomes for cancer patients and their families? *Cancer J* 2010;16(5):423–435. DOI: 10.1097/PPO.0b013e3181f684e5.
  33. Lynn J, Adamson DM. Living well at the end of life: Adapting health care to serious chronic illness in old age. 2003. Available at: [https://www.rand.org/pubs/white\\_papers/WP137.html](https://www.rand.org/pubs/white_papers/WP137.html). Accessed on: 10 December 2023
  34. Chochinov HM, Hack T, Hassard T, Kristjanson LJ, McClement S, Harlos M. Dignity therapy: A novel psychotherapeutic intervention for patients near the end of life. *J Clin Oncol* 2005;23(24):5520–555. DOI: 10.1200/JCO.2005.08.391.
  35. Epstein RM, Street RL Jr. The values and value of patient-centered care. *Ann Fam Med* 2011;9(2):100–103. DOI: 10.1370/afm.1239.
  36. Kennedy G. The importance of patient dignity in care at the end of life. *Ulster Med J* 2016;85(1):45–48. PMID: 27158166.
  37. Meier DE, Back AL, Morrison RS. The inner life of physicians and care of the seriously ill. *JAMA* 2001;286(23):3007–3014. DOI: 10.1001/jama.286.23.3007.
  38. Chochinov HM, Kristjanson LJ, Breitbart W, McClement S, Hack TF, Hassard T, et al. Effect of dignity therapy on distress and end-of-life experience in terminally ill patients: A randomised controlled trial. *Lancet Oncol* 2011;12(8):753–762. DOI: 10.1016/S1470-2045(11)70153-X.
  39. Sulmasy DP. Cultural and religious considerations in palliative care. In: *Principles and Practice of Palliative Care and Supportive Oncology*. Lippincott Williams & Wilkins; 2016, pp. 329–337. Philadelphia, PA, USA.
  40. Betancourt JR, Green AR, Carrillo JE, Owusu Ananeh-Firempong II. Defining cultural competence: A practical framework for addressing racial/ethnic disparities in health and health care. *Public Health Rep* 2003;118(4):293–302. DOI: 10.1016/S0033-3549(04)50253-4.
  41. Lovell N, Jones C, Baynes D, Dinning S, Vinen K, Murtagh FE. Understanding patterns and factors associated with place of death in patients with end-stage kidney disease: A retrospective cohort study. *Palliat Med* 2017;31(3):283–288. DOI: 10.1177/0269216316655747.
  42. Costa V, Earle CC, Esplen MJ, Fowler R, Goldman R, Grossman D, et al. The determinants of home and nursing home death: A systematic review and meta-analysis. *BMC Palliat Care* 2016;15:1–5. DOI: 10.1186/s12904-016-0077-8.
  43. Wang WS, Ma JD, Nelson SH, Revta C, Buckholz GT, Mulroney CM, et al. Advance care planning and palliative care integration for patients undergoing hematopoietic stem-cell transplantation. *J Oncol Pract* 2017;13(9):e721–e728. DOI: 10.1200/JOP.2016.020321.
  44. Back AL, Arnold RM, Tulsky JA, Baile WF, Fryer-Edwards K. Teaching communication skills to medical oncology fellows. *J Clin Oncol* 2003;21(12):2433–2436. DOI: 10.1200/JCO.2003.09.073.
  45. Bylund CL, Brown RF, Bialer PA, Levin TT, di Ciccone BL, Kissane DW. Developing and implementing an advanced communication training program in oncology at a comprehensive cancer center. *J Cancer Educ* 2011;26(4):604–611. DOI: 10.1007/s13187-011-0226-y.
  46. Hudson P, Thomas T, Quinn K, Cockayne M, Braithwaite M. Teaching family carers about home-based palliative care: Final results from a group education program. *J Pain Symptom Manage* 2009;38(2):299–308. DOI: 10.1016/j.jpainsymman.2008.08.010.
  47. Kuczmarski TM, Odejide OO. Goal of a “good death” in end-of-life care for patients with hematologic malignancies: Are we close? *Curr Hematol Malig Rep* 2021;16(2):117–125. DOI: 10.1007/s11899-021-00629-1.
  48. Zimmermann C, Swami N, Krzyzanowska M, Hannon B, Leighl N, Oza A, et al. Early palliative care for patients with advanced cancer: A cluster-randomised controlled trial. *Lancet* 2014;383(9930):1721–1730. DOI: 10.1016/S0140-6736(13)62416-2.
  49. Washington KT, Parker Oliver D, Demiris G, Wittenberg-Lyles E, Shaunfield S. Family perspectives on the hospice experience in adult family homes. *J Gerontol Soc Work* 2011;54(2):159–174. DOI: 10.1080/01634372.2010.536833.
  50. Beauchamp TL, Childress JF. *Principles of Biomedical Ethics*, 7th edition. New York: Oxford University Press; 2013.
  51. National Medical Commission. National Medical Commission Registered Medical Practitioner (Professional Conduct) Regulations, 2023. pp. 1–124. Available from: <https://www.nmc.org.in/rules-regulations/national-medical-commission-registered-medical-practitioner-professional-conduct-regulations-2023-reg/>.
  52. Aruna Shanbaug v Union of India. 2011.
  53. Truog RD, Campbell ML, Curtis JR, Haas CE, Luce JM, Rubenfeld GD, et al. Recommendations for end-of-life care in the intensive care unit: A consensus statement by the American College of Critical Care Medicine. *Critical care medicine* 2008;36(3):953–963. DOI: 10.1097/CCM.0B013E3181659096.
  54. Law Commission of India. 196th report (2006). Medical treatment of terminally ill patients (for the protection of patients and Medical practitioners). Available from: <http://lawcommissionofindia.nic.in/reports/rep196.pdf>.
  55. Ferrand E, Robert R, Ingrand P, Lemaire F. Withholding and withdrawal of life support in intensive-care units in France: A prospective survey. *Lancet* 2001;357(9249):9–14. DOI: 10.1016/S0140-6736(00)03564-9.
  56. Carlet J, Thijs LG, Antonelli M, Cassell J, Cox P, Hill N, et al. Challenges in end-of-life care in the ICU: Statement of the 5th International Consensus Conference in Critical Care: Brussels, Belgium, April 2003. *Intensive Care Med* 2004;30(5):770–784. DOI: 10.1007/s00134-004-2241-5.
  57. Luce JM, Lemaire F. Two transatlantic viewpoints on an ethical quandary. *American journal of respiratory and critical care medicine* 2001;163(4):818–821. DOI: <https://doi.org/10.1164/ajrccm.163.4.cc0101>.
  58. Luce JM, Alpers A. Legal aspects of withholding and withdrawing life support from critically ill patients in the United States and providing palliative care to them. *Am J Respir Crit Care Med* 2000;162(6):2029–2032. DOI: 10.1164/ajrccm.162.6.1-00.
  59. Quill TE. Principle of double effect and end-of-life pain management: Additional myths and a limited role. *Journal of palliative medicine* 1998;1(4):333–336. DOI: 10.1089/jpm.1998.1.333.
  60. van Bruchem-Visser RL, van Dijk G, de Beaufort I, Mattace-Raso F. Ethical frameworks for complex medical decision making in older patients: A narrative review. *Arch Gerontol Geriatr* 2020;90:104160. DOI: 10.1016/j.archger.2020.104160.
  61. Bein T, Brodie D. Understanding ethical decisions for patients on extracorporeal life support. *Intensive Care Med* 2017;43(10):1510–1511. DOI: 10.1007/s00134-017-4781-5.
  62. Stoeveelaar R, Brinkman-Stoppelenburg A, van Bruchem-Visser RL, van Driel AG, Bhagwandien RE, Theuns DA, et al. Implantable cardioverter defibrillators at the end of life: Future perspectives on clinical practice. *Neth Heart J* 2020;28(11):565–570. PMC7596123.
  63. Kitzinger C, Kitzinger J. Withdrawing artificial nutrition and hydration from minimally conscious and vegetative patients: Family perspectives. *J Med Ethics* 2015;41(2):157–160. DOI: 10.1136/medethics-2013-101799.
  64. Schneiderman LJ, Gilmer T, Teetzel HD. Impact of ethics consultations in the intensive care setting: A randomized, controlled trial. *Crit Care Med* 2000;28(12):3920–3924. DOI: 10.1097/00003246-200012000-00033.
  65. Schneiderman LJ, Gilmer T, Teetzel HD, Dugan DO, Blustein J, Cranford R, et al. Effect of ethics consultations on nonbeneficial life-sustaining treatments in the intensive care setting: A randomized controlled trial. *Jama* 2003;290(9):1166–1172. DOI: 10.1001/jama.290.9.1166.
  66. Taylor DR, Lightbody CJ. Futility and appropriateness: Challenging words, important concepts. *Postgraduate Medical Journal* 2018;94(1110):238–243. DOI: 10.1136/postgradmedj-2018-135581.
  67. Kasman DL. When is medical treatment futile? A guide for students, residents, and physicians. *Journal of general internal medicine* 2004;19(10):1053–1056. DOI: 10.1111/j.1525-1497.2004.40134.x.
  68. Hui D. Prognostication of survival in patients with advanced cancer: Predicting the unpredictable? *Cancer Control* 2015;22(4):489–497. DOI: 10.1177/107327481502200415.

69. Bein T. Avoidance of futile treatment—confluence of human dignity and ecological ethics. *Intensive Care Med* 2023;49(9):1145–1146. DOI: 10.1007/s00134-023-07173-x.
70. Gibbins JA, McCoubrie RA, Alexander N, Kinzel C, Forbes K. Diagnosing dying in the acute hospital setting—are we too late? *Clinical Med* 2009;9(2):116–119. DOI: 10.7861/clinmedicine.9-2-116.
71. Mori M, Morita T, Bruera E, Hui D. Prognostication of the last days of life. *Cancer Res Treat* 2022;54(3):631–643. DOI: 10.4143/crt.2021.1573.
72. Schneiderman LJ, Jecker NS, Jonsen AR. The abuse of futility. *Perspect Biol Med* 2017;60(3):295–313. DOI: 10.1353/pbm.2018.0001.
73. Schneiderman LJ, Jecker NS, Jonsen AR. Medical futility: Its meaning and ethical implications. *Ann Intern Med* 1990;112(12):949–954. DOI: 10.7326/0003-4819-112-12-949.
74. Consensus statement of the Society of Critical Care Medicine's Ethics Committee regarding futile and other possibly inadvisable treatments. *Crit Care Med* 1997;25(5):887–891. DOI: 10.1097/00003246-199705000-00028.
75. Australian and New Zealand Intensive Care Society. ANZICS Statement on Care and Decision-Making at the End of Life for the Critically Ill, 1st edition. Melbourne: ANZICS; 2014. pp. 1–148.
76. Bosslet GT, Pope TM, Rubenfeld GD, Lo B, Truog RD, Rushton CH, et al. An official ATS/AACN/ACCP/ESICM/SCCM policy statement: Responding to requests for potentially inappropriate treatments in intensive care units. *Am J Respir Crit Care Med* 2015;191:1318–1330. DOI: 10.1164/rccm.201505-0924ST.
77. Carter HE, Lee XJ, Gallois C, Winch S, Callaway L, Willmott L, et al. Factors associated with non-beneficial treatments in end of life hospital admissions: A multicentre retrospective cohort study in Australia. *BMJ open* 2019;9:e030955. Available from: <https://ssrn.com/abstract=3486685>.
78. Cardona-Morrell M, Kim JC, Turner RM, Anstey M, Mitchell IA, Hillman K. Non-beneficial treatments in hospital at the end of life: A systematic review on extent of the problem. *International Journal for Quality in Health Care*. 2016;28(4):456–469. DOI: 10.1093/intqhc/mzw060.
79. Chu C, White N, Stone P. Prognostication in palliative care. *Clinical Medicine* 2019;19(4):306–310. DOI: 10.7861/clinmedicine.19-4-306.
80. Wilkinson D. The self-fulfilling prophecy in intensive care. *Theor Med Bioeth* 2009;30(6):401–410. DOI: 10.1007/s11017-009-9120-6.
81. Christakis NA, Smith JL, Parkes CM, Lamont EB. Extent and determinants of error in doctors' prognoses in terminally ill patients: prospective cohort study. Commentary: Why do doctors overestimate? Commentary: Prognoses should be based on proved indices not intuition. *Bmj* 2000;320(7233):469–473. DOI: 10.1136/bmj.320.7233.469.
82. Thiéry G, Azoulay É, Darmon M, Cioldi M, De Miranda S, Lévy V, et al. Outcome of cancer patients considered for intensive care unit admission: A hospital-wide prospective study. *Journal of Clinical Oncology* 2005;23(19):4406–4413. DOI: 10.1200/JCO.2005.01.487.
83. White N, Reid F, Harris A, Harries P, Stone P. A systematic review of predictions of survival in palliative care: How accurate are clinicians and who are the experts?. *PLoS One* 2016;11(8):e0161407. DOI: 10.1371/journal.pone.0161407.
84. Lecuyer L, Chevret S, Thiéry G, Darmon M, Schlemmer B, Azoulay É. The ICU trial: A new admission policy for cancer patients requiring mechanical ventilation. *Critical Care Medicine* 2007;35(3):808–814. DOI: 10.1097/01.CCM.0000256846.27192.7A.
85. Azoulay E, Schellongowski P, Darmon M, Bauer PR, Benoit D, Depuydt P, et al. The Intensive Care Medicine research agenda on critically ill oncology and hematology patients. *Intensive Care Medicine* 2017;43(9):1366–1382. DOI: 10.1007/s00134-017-4884-z.
86. Kiehl MG, Beutel G, Böll B, Buchheidt D, Forkert R, Fuhrmann V, et al. Consensus statement for cancer patients requiring intensive care support. *Annals of Hematology* 2018;97:1271–1282. DOI: 10.1007/s00277-018-3312-y.
87. Smith LJ, Moore E, Ali I, Smeeth L, Stone P, Quint JK. Prognostic variables and scores identifying the end of life in COPD: A systematic review. *Int J Chron Obstruct Pulmon Dis* 2017;12:2239–2256. DOI: 10.2147/COPD.S137868.
88. Cardona-Morrell M, Hillman K. Development of a tool for defining and identifying the dying patient in hospital: Criteria for Screening and Triaging to Appropriate Alternative care (CriSTAL). *BMJ Support Palliat Care* 2015;5(1):78–90. DOI: 10.1136/bmjspcare-2014-000770.
89. Xing X, Gao Y, Wang H, Huang C, Qu S, Zhang H, et al. Performance of three prognostic models in patients with cancer in need of intensive care in a medical center in China. *PLoS One* 2015;10(6):e0131329. DOI: 10.1371/journal.pone.0131329.
90. Detsky ME, Harhay MO, Bayard DF, Delman AM, Buehler AE, Kent SA, et al. Six-month morbidity and mortality among intensive care unit patients receiving life-sustaining therapy. A prospective cohort study. *Ann Am Thorac Soc* 2017;14(10):1562–1570. DOI: 10.1513/AnnalsATS.201611-875OC.
91. Loyrion E, Agier L, Trouve-Buisson T, Gavazzi G, Schwebel C, Bosson JL, et al. Dynamic SOFA score assessments to predict outcomes after acute admission of octogenarians to the intensive care unit. *PLOS One* 2021;16(8):e0253077. DOI: 10.1371/journal.pone.0253077.
92. He L, Li H, Cai J, Chen L, Yao J, Zhang Y, et al. Prognostic value of the Glasgow prognostic score or modified Glasgow prognostic score for patients with colorectal cancer receiving various treatments: A systematic review and meta-analysis. *Cellular Physiology and Biochemistry* 2018;51(3):1237–1249. DOI: <https://doi.org/10.1159/000495500>.
93. Lu X, Guo W, Xu W, Zhang X, Shi Z, Zheng L, et al. Prognostic value of the Glasgow prognostic score in colorectal cancer: A meta-analysis of 9,839 patients. *Cancer Manag Res* 2018;24:229–249. DOI: 10.2147/CMAR.S185350.
94. Ye W, Li R, Liang H, Huang Y, Xu Y, Li Y, et al. Development and validation of a clinical risk model to predict the hospital mortality in ventilated patients with acute respiratory distress syndrome: A population-based study. *BMC Pulmonary Medicine* 2022;22:268. DOI: <https://doi.org/10.1186/s12890-022-02057-0>.
95. Wong FK, Ng AY, Lee PH, Lam PT, Ng JS, Ng NH, et al. Effects of a transitional palliative care model on patients with end-stage heart failure: a randomised controlled trial. *Heart* 2016;102(14):1100–1108. DOI: 10.1136/heartjnl-2015-308638.
96. Peng Y, Qi X, Guo X. Child–Pugh vs MELD score for the assessment of prognosis in liver cirrhosis: A systematic review and meta-analysis of observational studies. *Medicine* 2016;95(8):e2877. DOI: 10.1097/MD.0000000000002877.
97. Li XD, Li MM. A novel nomogram to predict mortality in patients with stroke: A survival analysis based on the MIMIC-III clinical database. *BMC Medical Informatics and Decision Making* 2022;22:92. DOI: <https://doi.org/10.1186/s12911-022-01836-3>.
98. Vincent JL, Quintairois e Silva A, Couto L, Taccone FS. The value of blood lactate kinetics in critically ill patients: A systematic review. *Crit Care* 2016;20(1):1–4. DOI: 10.1186/s13054-016-1403-5.
99. Chu C, Anderson R, White N, Stone P. Prognosticating for adult patients with advanced incurable cancer: A needed oncologist skill. *Curr Treat Options Oncol* 2020;21(1):1–8. DOI: 10.1007/s11864-019-0698-2.
100. Ferrante LE. Prognostication during Critical illness: Moving the field forward. *Ann Am Thorac Soc* 2017;14(10):1510–1511. DOI: 10.1513/AnnalsATS.201706-496ED.
101. Cheng WH, Kao CY, Hung YS, Su PJ, Hsieh CH, Chen JS, et al. Validation of a palliative prognostic index to predict life expectancy for terminally ill cancer patients in a hospice consultation setting in Taiwan. *Asian Pac J Cancer Prev* 2012;13(6):2861–2866. DOI: 10.7314/apjcp.2012.13.6.2861.
102. Baik D, Russell D, Jordan L, Dooley F, Bowles KH, Masterson Creber RM. Using the palliative performance scale to estimate survival for patients at the end of life: A systematic review of the literature. *J Palliat Med* 2018;21(11):1651–1661. DOI: 10.1089/jpm.2018.0141.
103. Tas J, Czosnyka M, van der Horst IC, Park S, van Heugten C, Sekhon M, et al. Cerebral multimodality monitoring in adult neurocritical care patients with acute brain injury: A narrative review. *Frontiers in physiology*. 2022;13:2433. DOI: <https://doi.org/10.3389/fphys.2022.1071161>.



104. Monteiro E, Ferreira A, Mendes ER, Maia I, Dias CC, Czosnyka M, et al. Neurocritical care management supported by multimodal brain monitoring after acute brain injury. *Crit Care Sci* 2023;35(2):196–202. DOI: 10.5935/2965-2774.20230036-en.
105. Bates D. The prognosis of medical coma. *J Neurol Neurosurg Psychiatry* 2001;71:i20–i23. DOI: 10.1136/jnnp.71.suppl\_1.i20.
106. Wijdicks EFM. Predicting the outcome of a comatose patient at the bedside. *Pract Neurol* 2020;20:26–33. DOI: 10.1136/practneurol-2019-002359.
107. Wartenberg KE, Hwang DY, Haeusler KG, Muehlschlegel S, Sakowitz OW, Madžar D, et al. Gap analysis regarding prognostication in neurocritical care: A joint statement from the German Neurocritical Care Society and the Neurocritical Care Society. *Neurocrit Care* 2019;31:231–244. DOI: 10.1007/s12028-019-00769-6.
108. Jennings KS, Marks S, Lum HD. The surprise question as a prognostic tool #360. *J Palliat Med* 2018;21:1529–1530. DOI: 10.1089/jpm.2018.0348.
109. White N, Kupeli N, Vickerstaff V, Stone P. How accurate is the 'Surprise Question' at identifying patients at the end of life? A systematic review and meta-analysis. *BMC Med* 2017;15(1):1–4. DOI: 10.1186/s12916-017-0907-4.
110. Yen YF, Hu HY, Lai YJ, Chou YC, Chen CC, Ho CY. Comparison of intuitive assessment and palliative care screening tool in the early identification of patients needing palliative care. *Sci Rep* 2022;12(1):4955. DOI: 10.1038/s41598-022-08886-7.
111. Downar J, Goldman R, Pinto R, Englesakis M, Adhikari NK. The "surprise question" for predicting death in seriously ill patients: A systematic review and meta-analysis. *CMAJ* 2017;189(13):E484–E493. DOI: 10.1503/cmaj.160775.
112. Hadique S, Culp S, Sangani RG, Chapman KD, Khan S, Parker JE, et al. Derivation and validation of a prognostic model to predict 6-month mortality in an intensive care unit population. *Ann Am Thorac Soc* 2017;14(10):1556–1561. DOI: 10.1513/AnnalsATS.201702-1590C.
113. Doty WD, Walker RM. Medical futility. *Clin Cardiol* 2000;23(2 Suppl 2):116–1116. Available from: <https://onlinelibrary.wiley.com/doi/pdf/10.1002/clc.4960231404>.
114. Pirracchio R, Petersen ML, Carone M, Rigon MR, Chevret S, van der Laan MJ. Mortality prediction in intensive care units with the Super ICU Learner Algorithm (SICULA): A population-based study. *Lancet Respir Med* 2015;3(1):42–52. DOI: 10.1016/S2213-2600(14)70239-5.
115. de Rooij SE, Abu-Hanna A, Levi M, de Jonge E. Factors that predict outcome of intensive care treatment in very elderly patients: A review. *Critical Care* 2005;9(4):1–8. DOI: 10.1186/cc3536.
116. Sandroni C, Cariou A, Cavallaro F, Cronberg T, Friberg H, Hoedemaekers C, et al. Prognostication in comatose survivors of cardiac arrest: An advisory statement from the European Resuscitation Council and the European Society of Intensive Care Medicine. *Intensive Care Medicine*. 2014;40(12):1816–1831. DOI: 10.1007/s00134-014-3470-x.
117. National consensus statement: Essential elements for safe high-quality end of life care. Australian Commission for Safety and Quality in Health Care; 2015. Available from: <https://www.safetyandquality.gov.au/publications/national-consensus-statement-essential-elements-for-safe-high-quality-end-of-life-care/>.
118. Sprung CL, Truog RD, Curtis JR, Joynt GM, Baras M, Michalsen A, et al. Seeking worldwide professional consensus on the principles of end-of-life care for the critically ill. The Consensus for Worldwide End-of-Life Practice for Patients in Intensive Care Units (WELPICUS) study. *Am J Respir Crit Care Med* 2014;190(8):855–866. DOI: 10.1164/rccm.201403-0593CC.
119. Salins N, Gursahani R, Mathur R, Iyer S, Macaden S, Simha N, et al. Definition of terms used in limitation of treatment and providing palliative care at the end of life: The Indian council of medical research commission report. *Indian J Crit Care Med* 2018;22(4):249–262. DOI: 10.4103/ijccm.IJCCM\_165\_18.
120. Sprung CL, Cohen SL, Sjøkvist P, Baras M, Bulow HH, Hovilehto S, et al. End-of-life practices in European intensive care units: The Ethicus Study. *JAMA* 2003;290(6):790–797. DOI: 10.1001/jama.290.6.790.
121. Sprung CL, Ricou B, Hartog CS, Maia P, Mentzelopoulos SD, Weiss M, et al. Changes in end-of-life practices in European intensive care units from 1999 to 2016. *Jama* 2019;322(17):1692–1704. DOI: 10.1001/jama.2019.14608.
122. Guidet B, Flaatten H, Boumendil A, Morandi A, Andersen FH, Artigas A, et al. Withholding or withdrawing of life-sustaining therapy in older adults (≥ 80 years) admitted to the intensive care unit. *Intensive Care Med* 2018;44(7):1027–1038. DOI: 10.1007/s00134-018-5196-7.
123. Hoel H, Skjaker SA, Haagensen R, Stavem K. Decisions to withhold or withdraw life-sustaining treatment in a Norwegian intensive care unit. *Acta Anaesthesiol Scand* 2014;58(3):329–336. DOI: 10.1111/aas.12246.
124. Mark NM, Rayner SG, Lee NJ, Curtis JR. Global variability in withholding and withdrawal of life-sustaining treatment in the intensive care unit: A systematic review. *Intensive Care Med* 2015;41(9):1572–1585. DOI: 10.1007/s00134-015-3810-5.
125. Van McCrary S, Swanson JW. Physicians' legal defensiveness and knowledge of medical law: Comparing Denmark and the USA. *Scand J Public Health* 1999;27(1):18–21. DOI: 10.1080/14034949950153850.
126. Lautrette A, Garrouste-Orgeas M, Bertrand PM, Goldgran-Toledano D, Jamali S, Laurent V, et al. Respective impact of no escalation of treatment, withholding and withdrawal of life-sustaining treatment on ICU patients' prognosis: A multicenter study of the Outcomerea Research Group. *Intensive Care Medicine* 2015;41(10):1763–1772. DOI: <https://doi.org/10.1007/s00134-015-3944-5>.
127. Burns KE, Cook DJ, Xu K, Dodek P, Villar J, Jones A, et al. Differences in directives to limit treatment and discontinue mechanical ventilation between elderly and very elderly patients: A multinational observational study. *Intensive Care Med* 2023;49(10):1181–1190. DOI: 10.1007/s00134-023-07188-4.
128. Bertolini G, Boffelli S, Malacarne P, Peta M, Marchesi M, Barbisan C, et al. End-of-life decision-making and quality of ICU performance: An observational study in 84 Italian units. *Intensive Care Med* 2010;36(9):1495–1504. DOI: 10.1007/s00134-010-1910-9.
129. Vincent JL. Withdrawing may be preferable to withholding. *Critical Care*. 2005;9(3):1–4.
130. Downar J, Delaney JW, Hawryluck L, Kenny L. Guidelines for the withdrawal of life-sustaining measures. *Intensive Care Medicine* 2016;42(6):1003–1117. DOI: 10.1007/s00134-016-4330-7.
131. Kapadia F, Singh M, Divatia J, Vaidyanathan P, Udawadia FE, Raisinghani SJ, et al. Limitation and withdrawal of intensive therapy at the end of life: Practices in intensive care units in Mumbai, India. *Critical Care Medicine* 2005;33(6):1272–1275. DOI: 10.1097/01.CCM.0000165557.02879.29.
132. Mani RK, Mandal AK, Bal S, Javeri Y, Kumar R, Nama DK, et al. End-of-life decisions in an Indian intensive care unit. *Intensive Care Med* 2009;35(10):1713–1719. DOI: 10.1007/s00134-009-1561-x.
133. Shrimel MG, Ferket BS, Scott DJ, Lee J, Barragan-Bradford D, Pollard T, et al. Time-limited trials of intensive care for critically ill patients with cancer: How long is long enough? *JAMA Oncol* 2016;2(1):76–83. DOI: 10.1001/jamaoncol.2015.3336.
134. Chang DW, Neville TH, Parrish J, Ewing L, Rico C, Jara L, et al. Evaluation of time-limited trials among critically ill patients with advanced medical illnesses and reduction of nonbeneficial ICU treatments. *JAMA Intern Med* 2021;181(6):786–794. DOI: 10.1001/jamainternmed.2021.1000.
135. Donaldson TM. When the harms of intensive care treatment outweigh the benefits, the default use of time-limited trials is not ethically justifiable. *Intensive Care Med* 2022;48(3):377–378. DOI: 10.1007/s00134-021-06607-8.
136. Donaldson TM. Harming patients by provision of intensive care treatment: Is it right to provide time-limited trials of intensive care to patients with a low chance of survival? *Medicine, Health Care and Philosophy* 2021;24:227–233. DOI: <https://doi.org/10.1007/s11019-020-09994-9>.
137. Stern SG, Orłowski JP. DNR or CPR—The choice is ours. *Crit Care Med* 1992;20(9):1263–1272. DOI: 10.1097/00003246-199209000-00013.

138. <https://www.5.4.org.uk/advice-and-support/ethics/end-of-life/decisions-relating-to-cpr-cardiopulmonary-resuscitation>.
139. Mathur R. ICMR Consensus Guidelines on 'Do Not Attempt Resuscitation'. *Indian J Med Res* 2020;151(4):303–310. DOI: 10.4103/ijmr.IJMR\_395\_20.
140. Tian J, Kaufman DA, Zarich S, Chan PS, Ong P, Amoaeng-Adjepong Y, et al. Outcomes of critically ill patients who received cardiopulmonary resuscitation. *American Journal of Respiratory and Critical Care Medicine* 2010;182:501–506. DOI: <https://doi.org/10.1164/rccm.200910-1639OC>.
141. van Delden JJ, Löfmark R, Deliens L, Bosshard G, Norup M, Cecioni R, et al. Do-not-resuscitate decisions in six European countries. *Critical Care Medicine* 2006;34(6):1686–1690. DOI: 10.1097/01.CCM.0000218417.51292.A7.
142. Tracey v Cambridge Uni Hospital NHS FoundationTrust & Ors. [2014] EWCA Civ 822. Available from: <https://www.bailii.org/ew/cases/EWCA/Civ/2014/822.html>.
143. Georgiou L, Georgiou A. A critical review of the factors leading to cardiopulmonary resuscitation as the default position of hospitalized patients in the USA regardless of severity of illness. *International Journal of Emergency Medicine* 2019;12:1–9. DOI: <https://doi.org/10.1186/s12245-019-0225-z>.
144. Wilson ME, Mittal A, Karki B, Dobler CC, Wahab A, Curtis JR, et al. Do-not-intubate orders in patients with acute respiratory failure: A systematic review and meta-analysis. *Intensive Care Medicine* 2020;46(1):36–45. DOI: 10.1007/s00134-019-05828-2.
145. Guidet B, Hodgson E, Feldman C, Paruk F, Lipman J, Koh Y, et al. The Durban World Congress Ethics Round Table Conference Report: II. Withholding or withdrawing of treatment in elderly patients admitted to the intensive care unit. *Journal of Critical Care* 2014;29(6):896–901. DOI: 10.1016/j.jccr.2014.08.004.
146. Ellershaw J, Lakhani M. Ten key Elements for best care for the dying patient. *BMJ* 2013;347:f4428. DOI: <https://doi.org/10.1136/bmj.f4428>.
147. Widera E, Anderson WG, Santhosh L, McKee KY, Smith AK, Frank J. Family meetings on behalf of patients with serious illness. *The New England Journal of Medicine* 2020;383:e71. DOI: 10.1056/NEJMvcm1913056.
148. Azoulay E, Pochard F, Chivret S, Lemaire F, Mokhitar M, Le Gall J, et al. Meeting the needs of Intensive Care Unit patient families. *Am J Respir Crit Care Med* 2001;163(1):135–139. DOI: 10.1164/ajrccm.163.1.2005117.
149. Kentish-Barnes N, Jensen HI, Curtis JR. The legacy of the interprofessional family meeting. *Intensive Care Medicine* 2022;48:933–935. DOI: <https://doi.org/10.1007/s00134-022-06718-w>.
150. Ruegger J, Hodgkinson S, Field-Smith A, Ahmedzai SH. Care of adults in the last days of life: Summary of NICE guidance. *BMJ* 2015;351:h6631. DOI: <https://doi.org/10.1136/bmj.h6631>.
151. Key recommendations on end-of-life care. Available from: [bma.org.uk](http://bma.org.uk).
152. Peter JV, Thomas K, Jeyaseelan L, Yadav B, Sudarsan Ti, Christina J, et al. Cost of intensive care in India. *International Journal of Technology Assessment in Health Care* 2016;32(4):241–245. DOI: 10.1017/S0266462316000398.
153. Chacko B, Ramakrishnan N, Peter JV. Approach to Intensive Care Costing and Provision of Cost-effective Care. *Indian Journal of Critical Care Medicine: Peer-reviewed, Official Publication of Indian Society of Critical Care Medicine*. 2023;27(12):876–887. DOI: 10.5005/jp-journals-10071-24576.
154. You JJ, Downar J, Fowler RA, Lamontagne F, Ma IW, Jayaraman D, et al. Barriers to goals of care discussions with seriously ill hospitalized patients and their families: A multicenter survey of clinicians. *JAMA Internal Medicine* 2015;175(4):549–556. DOI: 10.1001/jamainternmed.2014.7732.
155. Brody H, Campbell ML, Faber-Langendoen K, Ogle KS. Withdrawing intensive life-sustaining treatment—Recommendations for compassionate clinical management. *New England Journal of Medicine* 1997;336:652–657. DOI: 10.1056/NEJM199702273360910.
156. Curtis JR, Higginson IJ, White DB. Integrating palliative care into the ICU: A lasting and developing legacy. *Intensive Care Medicine* 2022;48(7):939–942. DOI: 10.1007/s00134-022-06729-7.
157. Faber-Langendoen K. A multi-institutional study of care given to patients dying in hospitals: Ethical and practice implications. *Archives of Internal Medicine* 1996;156(18):2130–2136. PMID: 8862106.
158. Robert R, Le Gouge A, Kentish-Barnes N, Cottreau A, Giraudeau B, Adda M, et al. Terminal weaning or immediate extubation for withdrawing mechanical ventilation in critically ill patients (the ARREVE observational study). *Intensive Care Medicine* 2017;43(12):1793–1807. DOI: 10.1007/s00134-017-4891-0.
159. Kentish-Barnes N, Chaize M, Seegers V, Legriel S, Cariou A, Jaber S, et al. Complicated grief after death of a relative in the intensive care unit. *European Respiratory Journal* 2015;45(5):1341–1352. DOI: 10.1183/09031936.00160014.
160. Hoffmann M, Jeitiner MM, Riedl R, Mueller G, Peer A, Bachlechner A, et al. Effects of an online information tool on post-traumatic stress disorder in relatives of intensive care unit patients: A multicenter double-blind, randomized, placebo-controlled trial (ICU-Families-Study). *Intensive Care Medicine* 2023;49(11):1317–1326. DOI: 10.1007/s00134-023-07215-4.
161. Roter DL, Stewart M, Putnam SM, Lipkin M, Stiles W, Inui TS. Communication patterns of primary care physicians. *JAMA* 1997;277(4):350–356. PMID: 9002500.
162. International Competency-based training program in Europe (CoBaTRICE). Available from: <https://www.esicm.org/education/cobatrice/>. [Accessed 23 Dec 2023].
163. Weiner SJ, Schwartz A, Sharma G, Binns-Calvey A, Ashley N, Kelly B, et al. Patient-centered decision making and health care outcomes: an observational study. *Annals of Internal Medicine*. 2013;158(8):573–579.
164. Royal College of Physicians. Talking about dying 2021: How to begin honest conversations. Available from: <https://www.rcplondon.ac.uk/projects/outputs/talking-about-dying-2021>.
165. Pochard F, Azoulay E, Chevret S, Lemaire F, Hubert P, Canoui P, et al. Symptoms of anxiety and depression in family members of intensive care unit patients: ethical hypothesis regarding decision-making capacity. *Critical Care Medicine* 2001;29(10):1893–1897. DOI: 10.1097/00003246-200110000-00007.
166. Hartog CS, Schwarzkopf D, Riedemann NC, Pfeifer R, Guenther A, Egerland K, et al. End-of-life care in the intensive care unit: A patient-based questionnaire of intensive care unit staff perception and relatives' psychological response. *Palliative Medicine* 2015;29(4):336–345. DOI: 10.1177/0269216314560007.
167. McDonagh JR, Elliott TB, Engelberg RA, Treece PD, Shannon SE, Rubenfeld GD, et al. Family satisfaction with family conferences about end-of-life care in the intensive care unit: increased proportion of family speech is associated with increased satisfaction. *Critical Care Medicine* 2004;32(7):1484–1488. DOI: <https://doi.org/10.1097/01.ccm.0000127262.16690.65>.
168. King A, Hoppe RB. "Best practice" for patient-centered communication: A narrative review. *Journal of Graduate Medical Education* 2013;5(3):385–393. DOI: 10.4300/JGME-D-13-00072.1.
169. Azoulay É, Pochard F. Communication with family members of patients dying in the intensive care unit. *Current Opinion in Critical Care* 2003;9(6):545–550. DOI: 10.1097/00075198-200312000-00014.
170. Azoulay É, Pochard F, Chevret S, Adrie C, Annane D, Bleichner G, et al. Half the family members of intensive care unit patients do not want to share in the decision-making process: A study in 78 French intensive care units. *Critical Care Medicine* 2004;32(9):1832–1838. DOI: 10.1097/01.ccm.0000139693.88931.59.
171. Henrich NJ, Dodek P, Heyland D, Cook D, Rocker G, Kutsogiannis D, et al. Qualitative analysis of an intensive care unit family satisfaction survey. *Critical Care Medicine* 2011;39(5):1000–1005. DOI: 10.1097/CCM.0b013e31820a92fb.
172. Spanish guidelines for Humanizing ICU care. Available from: <http://humanizandoloscuidadosintensivos.com/wp-content/>

- uploads/2016/12/ICU-Humanisation-Plan\_EN.pdf. [Accessed 15th Dec 2023]
173. Van den Bulcke B, Metaxa V, Reyners AK, Rusinova K, Jensen HI, Malmgren J, et al. Ethical climate and intention to leave among critical care clinicians: An observational study in 68 intensive care units across Europe and the United States. *Intensive Care Med* 2020;46(1):46–56. DOI: 10.1007/s00134-019-05829-1.
  174. Roter DL, Frankel RM, Hall JA, Sluyter D. The expression of emotion through nonverbal behavior in medical visits: Mechanisms and outcomes. *J Gen Intern Med* 2006;21(Suppl 1(Suppl 1)):28–34. DOI: 10.1111/j.1525-1497.2006.00306.x.
  175. Curtis JR, Engelberg RA, Wenrich MD, Shannon SE, Treece PD, Rubenfeld GD. Missed opportunities during family conferences about end-of-life care in the intensive care unit. *Am J Respir Crit Care Med* 2005;171(8):844–899. DOI: 10.1164/rccm.200409-1267OC.
  176. Nagelschmidt K, Leppin N, Seifart C, Rief W, von Blanckenburg P. Systematic mixed-method review of barriers to end-of-life communication in the family context. *BMJ Support Palliat Care* 2021;11(3):253–263. DOI: 10.1136/bmjspcare-2020-002219.
  177. Wright AA, Zhang B, Ray A, Mack JW, Trice E, Balboni T, et al. Associations between end-of-life discussions, patient mental health, medical care near death, and caregiver bereavement adjustment. *JAMA* 2008;300(14):1665–1673. DOI: 10.1001/jama.300.14.1665.
  178. Zulman DM, Haverfield MC, Shaw JG, Brown-Johnson CG, Schwartz R, Tierney AA, et al. Practices to foster physician presence and connection with patients in the clinical encounter. *JAMA* 2020;323(1):70–81. DOI: 10.1001/jama.2019.19003.
  179. Promoting Excellence in End-of-Life Care. Available from: [www.promotingexcellence.org](http://www.promotingexcellence.org). [Accessed 23rd Dec 2023].
  180. Fallowfield L, Jenkins V, Farewell V, Saul J, Duffy A, Eves R. Efficacy of a Cancer Research UK communication skills training model for oncologists: A randomised controlled trial. *Lancet* 2002;359(9307):650–656. DOI: 10.1016/S0140-6736(02)07810-8.
  181. Levinson W, Lesser CS, Epstein RM. Developing physician communication skills for patient-centered care. *Health Aff* 2010;29(7):1310–1318. DOI: 10.1377/hlthaff.2009.0450.
  182. Laws MB, Epstein L, Lee Y, Rogers W, Beach MC, Wilson IB. The association of visit length and measures of patient-centered communication in HIV care: A mixed methods study. *Patient Educ Couns* 2011;85(3):e183–e188. DOI: 10.1016/j.pec.2011.04.013.
  183. American Academy on Communication in Healthcare. AACH website. <http://www.aachonline.org>. [Accessed November 15, 2023]
  184. Gopaldas JA, Narayanaswamy N, Chandregowda NP. Communication skill training levels among critical care doctors in India. *Indian J Crit Care Med* 2023;27(8):567–571. DOI: 10.5005/jp-journals-10071-24495.
  185. Curtis JR, Sprung CL, Azoulay E. The importance of word choice in the care of critically ill patients and their families. *Intensive Care Med* 2014;40(4):606–608. DOI: 10.1007/s00134-013-3201-8.
  186. Lautrette A, Darmon M, Megarbane B, Joly LM, Chevret S, Adrie C, et al. A communication strategy and brochure for relatives of patients dying in the ICU. *N Engl J Med* 2007;356(5):469–478. DOI: 10.1056/NEJMoa063446.
  187. White DB, Angus DC, Shields AM, Buddadhumaruk P, Pedro C, Paner C, et al. A randomized trial of a family-support intervention in intensive care units. *N Engl J Med* 2018;378(25):2365–2375. DOI: 10.1056/NEJMoa1802637.
  188. Embriaco N, Azoulay E, Barrau K, Kentish N, Pochard F, Loundou A, et al. High level of burnout in intensivists: Prevalence and associated factors. *Am J Respir Crit Care Med* 2007;175(7):686–692. DOI: 10.1164/rccm.200608-1184OC.
  189. Curtis JR, White DB. Practical guidance for evidence-based ICU family conferences. *Chest* 2008;134(4):835–843. DOI: 10.1378/chest.08-0235.
  190. Kon AA, Davidson JE, Morrison W, Danis M, White DB. Shared decision-making in intensive care units. Executive summary of the American College of Critical Care Medicine and American Thoracic Society policy statement. *Am J Respir Crit Care Med* 2016;193(12):1334–1336. DOI: 10.1164/rccm.201602-0269ED.
  191. Warrillow S, Farley KJ, Jones D. Ten practical strategies for effective communication with relatives of ICU patients. *Intensive Care Med* 2015;41(12):2173–2176. DOI: 10.1007/s00134-015-3815-0.
  192. Zimmermann CJ, Zelenski AB, Buffington A, Baggett ND, Tucholka JL, Weis HB, et al. Best case/worst case for the trauma ICU: Development and pilot testing of a communication tool for older adults with traumatic injury. *J Trauma Acute Care Surg* 2021;91(3):542. DOI: 10.1097/TA.0000000000003281.
  193. Carson SS, Cox CE, Wallenstein S, Hanson LC, Danis M, Tulsy JA, et al. Effect of palliative care–led meetings for families of patients with chronic critical illness: A randomized clinical trial. *JAMA* 2016;316(1):51–62. DOI: 10.1001/jama.2016.8474.
  194. Seaman JB, Arnold RM, Scheunemann LP, White DB. An integrated framework for effective and efficient communication with families in the adult intensive care unit. *Ann Am Thorac Soc* 2017;14(6):1015–1020. DOI: 10.1513/AnnalsATS.201612-965OI.
  195. Wood J, Cicely Saunders, 'Total Pain' and emotional evidence at the end of life. *Med Humanit* 2022;48(4):411–420. DOI: 10.1136/medhum-2020-012107.
  196. Edwards JD, Voigt LP, Nelson JE. Ten key points about ICU palliative care. *Intensive Care Med* 2017;43(1):83–85. DOI: 10.1007/s00134-016-4481-6.
  197. Joad AK, Singh C, Dighe M, Rajashree KC, Macaden SC. End of Life Care. In: Ed. Mathews L. *Textbook for Certificate Course in Essentials of Palliative Care*. 5th Ed. Pub: Indian Asso of Palliative Care 2017. p. 296–311.
  198. Radbruch L, De Lima L, Knaut F, Wenk R, Ali Z, Bhatnagar S, et al. Redefining palliative care—A new consensus-based definition. *J Pain Symptom Manage* 2020;60(4):754–764. DOI: 10.1016/j.jpainsymman.2020.04.027.
  199. Temel JS, Greer JA, Muzikansky A, Gallagher ER, Admane S, Jackson VA, et al. Early palliative care for patients with metastatic non-small-cell lung cancer. *N Engl J Med* 2010;363(8):733–742. DOI: 10.1056/NEJMoa1000678.
  200. Anekar AA, Hendrix JM, Cascella M. WHO Analgesic Ladder. 2023 Apr 23. In: StatPearls [Internet]. Treasure Island (FL): StatPearls Publishing; 2023 Jan. PMID: 32119322.
  201. Puntillo K, Nelson JE, Weissman D, Curtis R, Weiss S, Frontera J, et al. Palliative care in the ICU: Relief of pain, dyspnea, and thirst—A report from the IPAL-ICU Advisory Board. *Intensive Care Med* 2014;40(2):235–248. DOI: 10.1007/s00134-013-3153-z.
  202. Johnson MJ, Currow DC. Opioids for breathlessness: A narrative review. *BMJ Support Palliat Care* 2020;10(3):287–295. DOI: 10.1136/bmjspcare-2020-002314.
  203. <https://clinicalexcellence.qld.gov.au/sites/default/files/docs/clinical-pathways/care-plan-dying-person/care-plan-dying-person-health-professional.pdf> [Accessed 20th Nov 2023].
  204. López-Saca JM, Guzmán JL, Centeno C. A systematic review of the influence of opioids on advanced cancer patient survival. *Curr Opin Support Palliat Care* 2013;7(4):424–430. DOI: 10.1097/SPC.0b013e328365763a.
  205. Minami S, Fujimoto K, Ogata Y, Yamamoto S, Komuta K. Opioids have no negative effect on the survival time of patients with advanced lung cancer in an acute care hospital. *Supportive Care Cancer* 2015;23(8):2245–2254. DOI: 10.1007/s00520-014-2592-6.
  206. Sykes N, Thorns A. The use of opioids and sedatives at the end of life. *Lancet Oncol* 2003;4(5):312–318. DOI: 10.1016/s1470-2045(03)01079-9.
  207. Wall RJ, Engelberg RA, Gries CJ, Glavan B, Curtis JR. Spiritual care of families in the intensive care unit. *Critical Care Med* 2007;35(4):1084–1090. DOI: 10.1097/01.CCM.0000259382.36414.06.
  208. Ho JQ, Nguyen CD, Lopes R, Ezeji-Okoye SC, Kuschner WG. Spiritual care in the intensive care unit: A narrative review. *J Intensive Care Med* 2018;33(5):279–287. DOI: 10.1177/0885066617712677.
  209. Gries CJ, Curtis JR, Wall RJ, Engelberg RA. Family member satisfaction with end-of-life decision making in the ICU. *Chest* 2008;133(3):704–712. DOI: 10.1378/chest.07-1773.
  210. National Consensus Project for Quality Palliative Care. *Clinical practice guidelines for quality palliative care*, 3rd ed. Pittsburgh, PA: National

- Consensus Project for Quality Palliative Care; 2012. Available from: [http://www.nationalconsensusproject.org/NCP\\_Clinical\\_Practice\\_Guidelines\\_3rd\\_Edition.pdf](http://www.nationalconsensusproject.org/NCP_Clinical_Practice_Guidelines_3rd_Edition.pdf).
211. Ernecoff NC, Curlin FA, Buddadhumaruk P, White DB. Health care professionals' responses to religious or spiritual statements by surrogate decision makers during goals-of-care discussions. *JAMA Intern Med* 2015;175(10):1662–1669. DOI: 10.1001/jamainternmed.2015.4124.
  212. Yoosefee S, Cheraghi MA, Asadi Z, Bahramnezhad F. A concept analysis of spiritual pain at the end-of-life in the Iranian-Islamic context: A qualitative hybrid model. *J Relig Health* 2023;62(3):1933–1949. DOI: 10.1007/s10943-022-01654-x.
  213. Sulmasy DP. Spirituality, religion, and clinical care. *Chest* 2009;135(6):1634–1642. DOI: 10.1378/chest.08-2241.
  214. Gristina GR, De Gaudio R, Mazzon D, Curtis JR. End of life care in Italian intensive care units: Where are we now? *Minerva Anestesiol* 2011;77(9):911–920. PMID: 21878873.
  215. Cook D, Rocker G. Dying with dignity in the intensive care unit. *N Engl J Med* 2014;370(26):2506–2514. DOI: 10.1056/NEJMr1208795.
  216. Swinton M, Giacomini M, Toledo F, Rose T, Hand-Breckenridge T, Boyle A, et al. Experiences and expressions of spirituality at the end of life in the intensive care unit. *Am J Respir Crit Care Med* 2017;195(2):198–204. DOI: 10.1164/rccm.201606-1102OC.
  217. Simha S, Noble S, Chaturvedi SK. Spiritual concerns in Hindu cancer patients undergoing palliative care: A qualitative study. *Indian J Palliat Care* 2013;19(2):99–105. DOI: 10.4103/0973-1075.116716.
  218. Gielen J, Bhatnagar S, Chaturvedi SK. Spirituality as an ethical challenge in Indian palliative care: A systematic review. *Palliat Support Care* 2016;14(5):561–582. DOI: 10.1017/S147895151500125X.
  219. Bhatnagar S, Gielen J, Satija A, Singh SP, Noble S, Chaturvedi SK. Signs of spiritual distress and its implications for practice in Indian Palliative Care. *Indian J Palliat Care* 2017;23(3):306–311. DOI: 10.4103/IJPC.IJPC\_24\_17.
  220. Butola S, Bhatnagar S, Rawlinson F. Caring and conflict-palliative care in the armed forces: The challenges for caregivers. *Indian J Palliat Care* 2021;27(3):405–418. DOI: 10.25259/IJPC\_393\_20.
  221. Gian Kaur v State of Punjab (1996) 2 SCC 648.
  222. Justice KS. Puttaswamy and Others v Union of India and Others (2019) 1 SCC 1.
  223. Rule 15(8), The West Bengal Clinical Establishments (Registration, Regulation and Transparency) Rules, 2017.
  224. Regulation 6.7, Indian Medical Council (Professional Conduct, Etiquette and Ethics) Regulations 2002.
  225. Regulation 16, National Medical Commission (Professional Conduct) Regulations 2022.
  226. Regulation 37, National Medical Commission (Professional Conduct) Regulations 2022.
  227. Aruna Shanbaug v Union of India (2011) 5 SCC 480, Paragraph 127.
  228. Common Cause v Union of India (2018) 5 SCC 1, Part K, Chief Justice Dipak Misra's judgement (for himself and Justice Khanwilkar).
  229. Akshat Agarwal, Towards a 'Good Death': Uncovering the Confusion in End-of-Life-Care Law in India, 16 NUJS L.Rev.1(2023).
  230. Law Commission of India, Passive Euthanasia-A Relook, Report No. 241, August 2012.
  231. The Medical Treatment of Terminally-Ill Persons (Protection of Patients and Medical Practitioners) Bill, 2016.
  232. Common Cause, Paragraph 199, Chief Justice Mishra's judgement.
  233. Common Cause, Part I, Chief Justice Chandrachud's opinion.
  234. Modified Order, Paragraph 198.4.1.
  235. Modified Order, Paragraph 198.4.4 and Paragraph 199.1.
  236. Modified Order, Paragraph 198.4.1 and Paragraph 199.1.
  237. Bhatnagar S, Biswas S, Kumar A, Gupta R, Sarma R, Yadav HP, et al. Institutional end-of-life care policy for inpatients at a tertiary care centre in India: A way forward to provide a system for a dignified death. *Indian J Med Res* 2022;155(2):232–242. DOI: 10.4103/ijmr.IJMR\_902\_21.
  238. Modified Order, Paragraph 198.4.5 and Paragraph 199.2.
  239. Government of Odisha, Health and Family Welfare Department, Office Order No-HFW-LEGAL-LEGAL-0003-2023 22376/H. dated 07.09.2023.
  240. Modified Order, Paragraph 198.4.7 and Paragraph 199.2.
  241. Modified Order, Paragraph 198.6.4.
  242. Modified Order, Paragraph 199.4.
  243. Modified Order, Paragraph 198.5.1 and Paragraph 199.4.
  244. Dingfield LE, Kayser JB. Integrating advance care planning into practice. *Chest* 2017;151(6):1387–1393. DOI: 10.1016/j.chest.2017.02.024.
  245. Mularski RA, Osborne ML. End-of-life care in the critically ill geriatric population. *Crit Care Clin* 2003;19(4):789–810. DOI: 10.1016/s0749-0704(03)00056-3.
  246. Sjöberg M, Edberg AK, Rasmussen BH, Beck I. Documentation of older people's end-of-life care in the context of specialised palliative care: A retrospective review of patient records. *BMC Palliat Care* 2021;20(1):91. DOI: 10.1186/s12904-021-00771-w.
  247. Schlichte L, Setji N, Walter J, Acker Y, Casarett D, Pollak KI, et al. The use of templates for documenting advance care planning conversations: A descriptive analysis. *J Pain Symptom Manage* 2023;66(2):123–136. DOI: 10.1016/j.jpainsymman.2023.04.015.
  248. Guidelines for End of Life Care. Available from: <https://aiims.edu/images/pdf/notice/irch-9-3-20.pdf>
  249. <https://palliumindia.org/wp-content/uploads/2021/10/BLUE-MAPLE-End-of-Life-Care-Manipal.pdf>.
  250. Kumar A, Psirides A, Maheshwari N, Chawla V, Mandal AK. Framework for decision-making and management of end-of-life decisions in Intensive Care Units: A modified protocol. *Indian J Crit Care Med* 2015;19(11):655–660. DOI: 10.4103/0972-5229.169339.
  251. National Association of County and City Health Officials: Building Your Advocacy Toolbox: Advocacy vs. Lobbying. Washington, DC, 2016.
  252. Pettus KI, de Lima L. Palliative care advocacy: Why does it matter? *J Palliat Med* 2020;23(8):1009–1012. DOI: 10.1089/jpm.2019.0696.
  253. Gursahani R, Simha SN, Mani RK. Legislation for end-of-life care in India: Reflections on 5 Years of the end-of-life care in India Taskforce Journey. *Indian J Palliat Care* 2020;26(3):269–270. DOI: 10.4103/0973-1075.293879.
  254. The Mathura Declaration – A call to action to promote palliative and end of life care in India. Available from: [https://ehospice.com/india\\_posts/the-mathura-declaration-a-call-to-action-to-promote-palliative-end-of-life-care-in-india](https://ehospice.com/india_posts/the-mathura-declaration-a-call-to-action-to-promote-palliative-end-of-life-care-in-india).
  255. FICCI-ELICIT Guide to improving End of Life Care and Decision-making. Available from: <http://ficci.in/spdocument/23114/FICCI-ELICIT-Guide-for-Doctors-and-Administrators.p>.
  256. Wilkie DJ, Ezenwa MO. Pain and symptom management in palliative care and at end of life. *Nurs Outlook* 2012;60(6):357–364. DOI: 10.1016/j.outlook.2012.08.002.
  257. Mquire DB, Grant M, Park J. Palliative care and end of life: The caregiver. *Nurs Outlook* 2012;60(6):351–356. DOI: 10.1016/j.outlook.2012.08.003.
  258. Chen EK, Riffin C, Reid MC, Adelman R, Warmington M, Mehta SS, et al. Why is high-quality research on palliative care so hard to do? Barriers to improved research from a survey of palliative care researchers. *J Palliat Med* 2014;17(7):782–787. DOI: 10.1089/jpm.2013.0589.
  259. Evans CJ, Harding R, Higginson IJ, MORECare. 'Best practice' in developing and evaluating palliative and end-of-life care services: a meta-synthesis of research methods for the MORE Care project. *Palliat Med* 2013;27(10):885–898. DOI: 10.1177/0269216312467489.
  260. Kaasa S, Loge JH, Aapro M, Albrecht T, Anderson R, Bruera E, et al. Integration of oncology and palliative care: A Lancet Oncology Commission. *Lancet Oncol* 2018;19(11):e588–e653. DOI: 10.1016/S1470-2045(18)30415-7.
  261. Hui D, Mori M, Watanabe SM, Caraceni A, Strasser F, Saarto T, et al. Referral criteria for outpatient specialty palliative cancer care: An international consensus. *Lancet Oncol* 2016;17(12):e552–e559. DOI: 10.1016/S1470-2045(16)30577-0.
  262. Tayjasanant S, Bruera E, Hui D. How far along the disease trajectory? An examination of the time-related patient characteristics in the palliative oncology literature. *Support Care Cancer* 2016;24(9):3997–4004. DOI: 10.1007/s00520-016-3225-z.

263. Bloomer MJ, Hutchinson AM, Brooks L, Botti M. Dying persons' perspectives on, or experiences of, participating in research: An integrative review. *Palliat Med* 2018;32(4):851–860. DOI: 10.1177/0269216317744503.
264. White C, Hardy J. What do palliative care patients and their relatives think about research in palliative care?—A systematic review. *Support Care Cancer* 2010;18(8):905–911. DOI: 10.1007/s00520-009-0724-1.
265. Klepstad P, Hjermsstad MJ. Are all patients that count included in palliative care studies? *BMJ Support Palliat Care* 2013;3(3):292–293. DOI: 10.1136/bmjspcare-2013-000461.
266. Véron C, Pautex S, Weber C, Janssens JP, Cedraschi C. Recollection of participating in a trial: A qualitative study of patients with severe and very severe chronic obstructive pulmonary disease. *PLoS One* 2018;13(9):e0204701. DOI: 10.1371/journal.pone.0204701.
267. Atout M. Experience of nurses who work with children with palliative care needs: A mixed-method systematic review. *Palliat Support Care* 2020;18(4):473–485. DOI: 10.1017/S1478951519000956.
268. Griffiths I. What are the challenges for nurses when providing end-of-life care in intensive care units? *Br J Nurs* 2019;28(16):1047–1052. DOI: 10.12968/bjon.2019.28.16.1047.
269. Seth AK, Mohanka R, Navin S, Gokhale AG, Sharma A, Kumar A, et al. Organ donation after circulatory determination of death in India: A joint position paper. *Indian Journal of Transplantation* 2022;16(1):26–41. DOI: 10.4103/ijot.ijot\_61\_21.
270. Thuong M, Ruiz A, Evrard P, Kuiper M, Boffa C, Akhtar MZ, et al. New classification of donation after circulatory death donors definitions and terminology. *Transpl Int* 2016;29(7):749–759. DOI: 10.1111/tri.12776.

## APPENDIX 1A TO 1C: DELPHI ROUNDS AND FINAL ROUNDS

### Appendix 1A: The Indian Society of Critical Care Medicine Consensus Position Statements for End-of-life Care and Palliative Care in Indian Intensive Care Units – Round 1 Survey Report

The Round 1 survey was created on “Google Forms” platform. The survey went live on 1 November 2023, with a window of 3 days for responses until 3 November 2023, at midnight India standard time (IST). This survey was sent to 17 members of the taskforce; 17 experts (100%) completed the survey in the stipulated time frame. There were 12 questions in the survey, all ordinal Likert scale-based qualitative statements. A detailed report of the results of each question with the comments is presented below for your perusal. Minor edits have been made in the comments received to maintain the anonymity of the experts. The steering committee has created a Round 2 questionnaire based on this report.

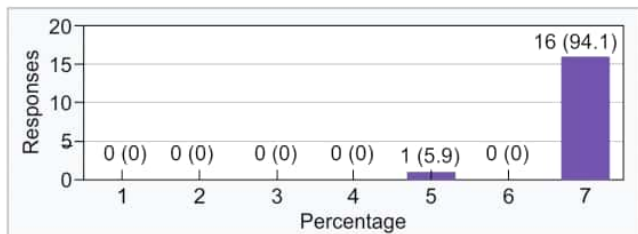
The steering committee, following extensive discussion, has made the following changes in the questionnaire, based on the responses and comments in Round 1:

1. A few questions have been rephrased to avoid any ambiguity.
2. In the multiple-choice questions, options have been added, deleted, or modified to achieve consensus.
3. One question is removed, and another added as per the comments received.

Consensus	>70% in favor of agree/disagree, or >80% in favor of single option	Analyze for stability
Stability	$\chi^2$ for analysis, $p < 0.05$ is significant (not applicable for Round-1)	To Analyze and aim for stable consensus or dissensus. If stable, the question is dropped from the next round.

#### Consensus Matrix

Round	1
Questions	12
Consensus	11
Comments	89

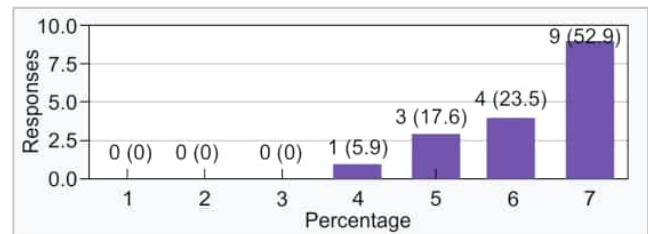


Status	Consensus	Stability
Consensus achieved but stability not checked	Yes (100%)	NA

Fig. A1: Quality of dying is as important as other measures of quality of care in the ICU (NA, not applicable)

#### Anonymous Comments

1. Death is inevitable and a bad death is avoidable.
2. Good death is an essential component of good care in intensive care unit.
3. A dignified death is the best quality indicator, especially in EOLC patients.
4. It has to be evaluated by appropriate scales; for example, quality of death and dying; quality of EOLC.
5. To maintain dignity and peace.
6. *The way we die lives on in the memories of those we leave behind* – Dame Cicely Saunders. This applies to caregivers as well as ICU staff who often carry the burden or moral injury of painful deaths of patients in the ICU. Quality of death in bereavement surveys/questionnaires are measures that help improve the EOLC care in ICUs ensuring dignity and comfort.
7. This is most difficult to measure or judge and yet may be the most important aspect. Patients views on QOD are practically nonexistent in ICU patients.
8. The concept of quality of dying is somewhat nebulous.



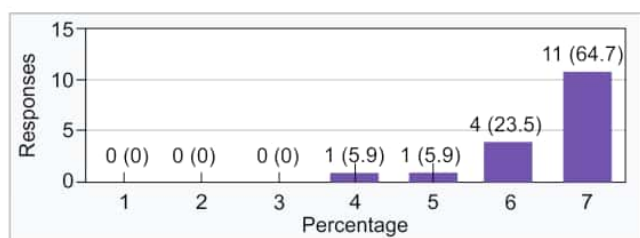
Status	Consensus	Stability
Consensus not achieved and stability not checked	Yes (94.1%)	NA

Fig. A2: While discussing transitioning to PC, emphasis should be on the suffering of the patient than on the legality of treatment limitation (NA, not applicable)

#### Anonymous Comments

1. Total suffering must be budgeted of patients and caregivers and all measures must be medically ethically and legally permissible with a lot of emphasis on unhurried sensitive conversations throughout.
2. The best interest of the patient must never be compromised, however the legal aspect must also be taken into account.
3. Both are important.
4. I am not sure of what the question is about. Needs more explanation. However, to answer partly, I think all relevant factors should be considered in the discussion. It is not just a legal decision.
5. Currently there is uncertainty amongst many doctors and most lay people about the legality, so it needs to be addressed.
6. It helps to provide the comfort and QOL till the last breath.
7. Emphasis on reducing suffering/improving QOL.
8. Ethical responsibility of taking care of suffering is as important as legal issues.
9. The medical ethical pillars that the decision of transitioning to PC from curative intent rests on are beneficence and nonmaleficence. Conversations about SDM should be based on universal ethical principles though locoregional legal contexts may vary.

10. I agree that the emphasis should always be about alleviating the patient's suffering. Ideally, we should reach a stage where the legality of treatment limitation is simply not in question, and is a matter of course, so that this does not have to factor into the manner in which the treating team and the patient's family or surrogate decision makers arrive at their decision. I don't think that this statement should be interpreted to mean that caregivers should act in a manner that this not in accordance with the law. What we would like to present through the EOLC pathway that legality and alleviating patient suffering are not in conflict.
11. Benefit/risk ratio of proposed intervention and patient's wishes are paramount.
12. Mostly agree with this statement.



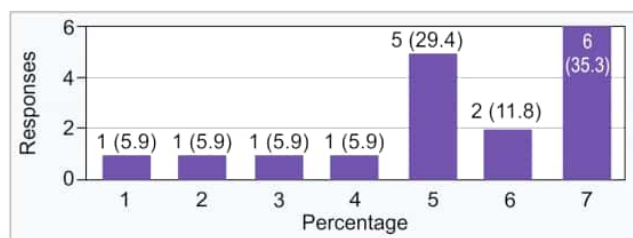
Status	Consensus	Stability
Consensus achieved but stability not checked	Yes (94.1%)	NA

**Fig. A3:** Along with terminal illness and impending mortality, severe irreversible disability burdensome to the patient should be included as a reason for a treatment limitation decision (NA, not applicable)

**Anonymous Comments**

1. Autonomy vital. Hence, awareness of advance directives very vital.
2. Again, I am not sure what this question really wants to ask. We should go by standard criteria. This question is applicable to neurological conditions in ICU. How do you measure regarding other serious illnesses? There should be objective measures. Or else, it can be how the clinicians, or the patient-caregiver dyads interpret.
3. Severe neurologic injury needs clarity on FLST.
4. Because it is complex and crucial in decision making in respecting the patient autonomy, avoiding unnecessary suffering, helping have resource allocation and maintaining the overall well-being.
5. Severe irreversible disability burdensome to patient is an important factor in decision making, but this should be a shared decision after a conversation about values-based GOC and understanding of acceptable QOL according to the patient. This is of special relevance in decisions about life-sustaining treatments in people with pre-existing disabilities and essential to conversations to ensure avoidance of ableism or ageism in intensive care treatment decisions.
6. The only reason for marking this as "6" instead of "7" is because of the Supreme Court's guidelines, which appear to have considered treatment limitation only for terminal illness or a persistent vegetative state, where there is no hope of cure or recovery. However, outside of what the current position of the law appears to be, I am entirely in favor of this kind of condition qualifying as a reason for treatment limitation.

7. This of course should be in the context of a SDM with family and treating physicians especially when patients' wishes are not known.
8. If the patient or legal representative agrees to such limitation.



Status	Consensus	Stability
Consensus not achieved and stability not checked	Yes (76.4%)	NA

**Fig. A4:** Intensive care unit admission criteria should exclude patients whose disease/clinical status would clearly render ICU care to be of little or no benefit and a trails of ICU care is excluded (NA, not applicable)

**Anonymous Comments**

1. Selection of patients in ICU is crucial. Once admitted, review is important with a time-tested trial.
2. This would hold true in a setup where options are available for palliation outside the ICU. Otherwise, patient may need ICU care for adequate symptom control.
3. We won't know for sure in certain cases. Extensive metastatic disease burden in cancer is understandable. What about other illnesses?
4. Reasons for triaging patients out of the ICU must be documented transparently.
5. To provide the best care and support to each patient by using the resources efficiently. considering their benefits ethically.
6. Explaining is mandatory but people may still choose to go to ICU, and we should respect their wishes.
7. Criteria excluding ICU admission for those patients where ICU care would render little, or no benefit are to be considered in selected situations (universal health care or government funded systems where resource allocation is important and distributive justice has greater weightage as an ethical principle) or in disasters/pandemics where resource limitation and public health demands require strict criteria for rationing health care. In other situations where resources (ICU bed, staffing, etc.) are not limited, exceptions can be made for sociocultural reasons allowing time for caregivers to come to terms with sudden life-threatening critical illnesses.
8. I might have been able to answer this question better if I knew why a trial of ICU care is excluded. The interesting question to answer here from a legal perspective is whether the exclusion of patients from an ICU or the setting of such admission criteria themselves require compliance with the Supreme Court's guidelines on WH/WD care. This is something that could be discussed in more detail.
9. The difficulties are the complete lack of GOC with family members by primary physician, the uncertain legal climate, and the fact that healthcare in India is mostly by out-of-pocket expenditure.

10. Determination of lack of benefit of ICU care is in many situations difficult and unreliable.

From the perspective of EOLC, the ICU admission may be considered for the following:

Statement	Disagreement	Neutral	Agreement	Stability
1 For optimizing EOLC if symptom control is difficult	6 (35%)	3 (18%)	8 (47%)	NA
2 For reason of family preference provided the GOC are well communicated	6 (35%)	3 (18%)	8 (47%)	NA
3 For terminally ill patients, to facilitate deceased organ donation	4 (23%)	3 (18%)	10 (59%)	NA

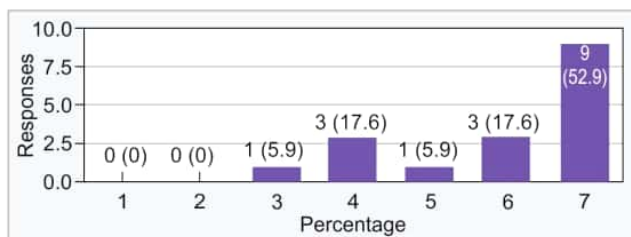
  

Status	Consensus	Stability
Consensus not achieved and stability not checked	No	NA

Fig. A5: From the perspective of EOLC, the ICU admission may be considered (NA, not applicable)

**Anonymous Comments**

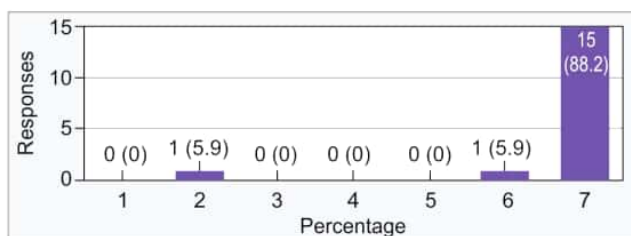
- Point three is valid if there has been a conversation regarding the organ donation prior to shift to ICU.
- Maybe for points 1 and 3, criteria need to be medical, but not family preference.
- The EOLC symptom control requires a PC unit, not an ICU. Family reasons necessitating ICU admission are usually linked to discord in the family. Organ donation is unlikely in a patient not on ventilatory support and such a patient is unlikely to not be in an ICU.
- It aligns with the comfort and patient values to respect their autonomy and dignity.
- I was not in any doubt about the first and third options, but I was not sure how to rate my second answer for two reasons. First, this seems linked to the previous question about ICU admission criteria. If such criteria are going to exclude patients for whom an ICU would provide little or no benefit and where a trial is excluded, then it follows that in such patients, family preferences for ICU admission would have no part to play. The second reason is that I am unclear what the GOC would be if the patient is being admitted to the ICU only for reasons of family preference. In this scenario, does it mean that the treating team does not think the ICU will be of any benefit, but is admitting the patient only because the family desires it? How would GOC be determined in such instances?
- The ICU cannot serve as an alternative for a PC unit. Ideally, a PC should be offered in specialized units for such patients.
- Cost is borne by families and GOC are frequently not clear. Also, there is no DCD.



Status	Consensus	Stability
Consensus achieved but stability not checked	Yes (76.5%)	NA

Fig. A6: The intensivist must take leadership role in conducting multidisciplinary team and family meetings (NA, not applicable)

- Has to be a team of doctors supported by bio ethics committee along with PC physicians.
- The intensivists have the best understanding about the overall clinical status and implications of life support interventions. Hence, the intensivist must play a vital role.
- It should be a collaborative leadership role between ICU specialist and treating physician and might include the PC physician.
- Preferably the primary physician.
- Multidisciplinary discussions and consensus-building can ensure that the patient's care is well managed, and everyone works toward common goals with the best care plan being developed and implemented. Family meetings can facilitate discussions that respect the patient's values and wishes while also considering the medical perspective that can provide support and information to help families better understand the patient's condition and care plan, which can alleviate some of their concerns and fears.
- Mostly it should be PC colleague/someone with extra training in PC in addition to critical care.
- Any member of the team, who has better rapport with the patient and family—even the primary physician, can take the lead but this is more relevant in cases where patient is already in ICU care.
- I have marked this "6" instead of "7" because I wondered whether there was also room for a senior intensive care nurse to take on such a role as well. However, I do not have the experience to comment on this, so I am only recording this for further consideration.
- There is nobody else and even intensivists are not keen.



Status	Consensus	Stability
Consensus achieved but stability not checked	Yes (94.1%)	NA

Fig. A7: While conveying available treatment options that may be potentially inappropriate, a "palliative care only" option should also be mentioned as a standard of care





**Anonymous Comments**

1. This would help the family understand the option which are/ are not in the best interest of the patients and help in SDM.
2. Palliative care is not an alternative. Sorry, not sure yet what we mean by this. Some discussion may help.
3. Yes, discussions about PC should consider the patient's specific clinical situation, prognosis, and GOC to ensure the most appropriate and individualized care plan.
4. Palliative care options must be included always as standard of care (autonomy, SDM values-based patient/family centric care demands that PC is offered as a part of best practices).
5. The caveat is PC is not doing several interventions and providing comfort through symptom relief, and support of patient and family. Also, relatives are not clear about WD/WH of all the interventions hence a detailed discussion of what interventions they want and which they don't should be mandatory.

Statement	Disagreement	Neutral	Agreement	Stability
1 The medical team should initiate serious illness conversations, guided by a "checklist" for setting GOC	0	1 (6%)	16 (94%)	NA
2 The medical team should not take unilateral decisions even if an intervention is clearly futile	3 (18%)	0	14 (82%)	NA
3 The medical team should provide considered recommendations and not merely provide a menu of options	1 (6%)	0	16 (94%)	NA
4 The medical team must not burden the patient/family with the onus of taking treatment limiting decisions	4 (24%)	0	13 (76%)	NA
5 The medical team must not encourage or suggest the LAMA process when faced with ethical/ financial dilemmas	1 (6%)	1 (6%)	15 (88%)	NA

(Contd...)

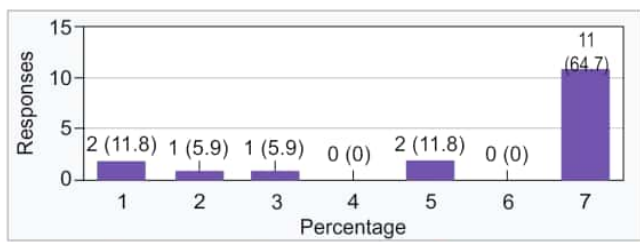
(Contd...)

Statement	Disagreement	Neutral	Agreement	Stability
6 The medical team must not impose their own views, but provide facts of the case and available options	1 (6%)	0	16 (94%)	NA
7 The medical team must avoid the term "futility" that could be misconstrued as undervaluing the worth of the patient's life	2 (12%)	1 (6%)	14 (82%)	NA
<i>Status</i>				<i>Consensus Stability</i>
Consensus achieved but stability not checked				Yes (1-7) NA

**Fig. A8:** Which of the following role(s) of medical team are appropriate for communication and patient care in the context of EOL? (NA, not applicable)

**Anonymous Comments**

1. Integrating these roles to provide comprehensive, patient-centered EOLC. Effective communication will ensure compassionate care and patient advocacy, and they experience the best possible QOL during this challenging time.
2. Did not follow last point clearly. All these points are important but situation, family dynamics, age of the patient may change the decision for families.
3. In certain situations, unilateral decisions might have to be taken keeping "the best interest of the patient" in mind; for example, if no family member or surrogate is available or during disasters or epidemics.
4. The medical team must respect as autonomy of patient/surrogate as the principal pillar of ethics and should facilitate understanding for decision making in the patient's best interest. The medical team should assist the patient/family in Shared or Supported decision making with expert inputs based on prognostication and evidence-based recommendations. Nonbeneficial treatment or potentially medically inappropriate intervention is a better term than "futility" which suggests abandonment and devaluing life.
5. All of these are eminently sound and reasonable suggestions. In particular, I applaud the recommendation that the medical team refrain from taking unilateral decisions even when the intervention is likely to be clearly futile. In a theoretical sense, and from the point of view of the law, one might argue that the medical team is not compelled to provide any treatment that they do not believe to be in the patient's best interests. However, any unilateral decision to exercise this right will leave the medical team more open and vulnerable to conflict with the patient's family or surrogate decision makers. Therefore, both from an ethical and pragmatic perspective, it is wise that this kind of decision not be exercised unilaterally.
6. The family must be a part of the decision-making process.



Status	Consensus	Stability
Consensus achieved but stability not checked	Yes (76.4%)	NA

Fig. A9: Withdrawal and withholding are ethically similarly grounded and are legally equivalent (NA, not applicable)

**Anonymous Comments**

1. Intent being comfort and restoring dignity and respect of the vulnerable sick person.
2. There is enough literature where these two modalities have been evaluated in the context of legal and ethical aspects. There is clearly no demarcation if the modalities are interpreted correctly.
3. From the current legal perspective, that is my understanding.
4. This has still not been confirmed in Indian jurisprudence.
5. But both guides all the ethical principles in the same way.
6. Even If they are ethically similarly grounded, they are two separate entities.
7. While many consider withdrawing life support a more difficult decision than WH life-sustaining treatment, TLTs with WD supported with symptom control can at times be better for caregivers/family members as they have a perception of having tried their best while ensuring comfort.
8. I believe that the two are ethically similar. I disagree slightly about their legal equivalence, purely in terms of the procedure laid down by the Supreme Court in January 2023. The Court also holds WH and withdrawing to be legally equivalent except in two instances: First, it is only the decision to withdraw medical treatment that has to be intimated by the hospital to the Judicial Magistrate of the First Class, not the decision to withhold (see revised Paragraph 198.4.7 of the judgement dated 24 January 2023). Second, it is only when permission to withdraw medical treatment is refused by a SMB that a High Court may be approached, not when permission to withhold medical treatment is refused (see Paragraph 198.5.1). Similarly, in cases where there is no advance medical directive, and the PMB has not taken a decision or the SMB has disagreed with the opinion of the PMB, the High Court may be approached by the treating doctor or the hospital staff or a family member only to ask for WD of the treatment in question, not for WH. (See Paragraph 199.4). This is presumably because no treatment can be administered against the wishes of a family member or surrogate decision maker. When a PMB does not wish to withhold treatment, it is the same as saying that they believe that some treatment should be administered. However, if there is no consent for this from the family member or surrogate decision maker, they will not be able to provide treatment forcibly. In such cases, the family

or surrogate decision maker may request a discharge or transfer to another hospital, which the original hospital will be bound by. Therefore, the procedural distinctions between WH and WD that are carved out by the Supreme Court's order make practical sense.

Statement	Disagreement	Neutral	Agreement	Stability
1 Intensive care staff training must cover competencies in EOL communication	0	0	17 (100%)	NA
2 Intensive care staff training must cover competencies in general PC	0	0	17 (100%)	NA
3 Intensive care staff training must include knowledge of biomedical ethics in EOL decision-making	0	0	17 (100%)	NA
4 Intensive care training must include competencies in the application of various modalities of treatment limitation	1 (6%)	0	16 (94%)	NA

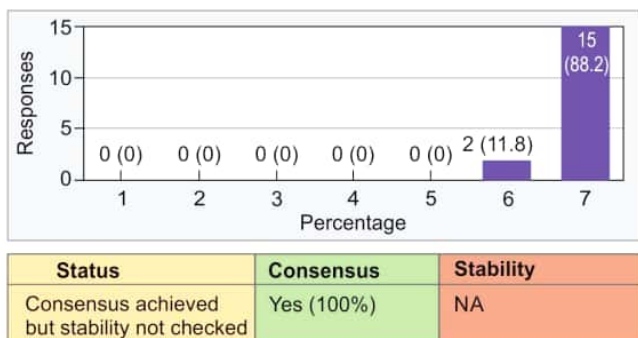
Status	Consensus	Stability
Consensus achieved but stability not checked	Yes (1-4)	NA

Fig. A9: Withdrawal and withholding are ethically similarly grounded and are legally equivalent (NA, not applicable)

**Anonymous Comments**

1. As an intensivist, I believe that these aspects must be incorporated into the curriculum as an essential topics.
2. To improve their competency in the provision of EOLC.
3. All are important aspects.
4. Basic competency in primary PC in ICU are essential for all intensive care staff. Basic competency in principles of medical ethics is essential for all intensive care staff. The EOL decision making often involves complex sociocultural, religious issues or conflicts between caregivers where some ethical principles may be at odds in the same case, the team leader or intensivist consultant needs advanced competency in negotiation such complex decisions. In some cases, this may require an ethics consultation.

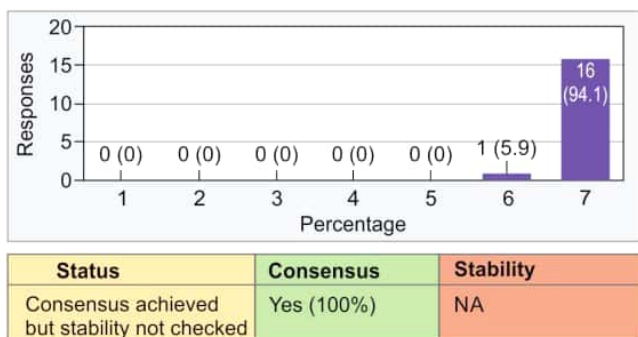




**Fig. A11:** Every hospital offering intensive care services must have EOL policy and standard operating procedure for treatment limiting decision making (NA, not applicable)

**Anonymous Comments**

1. Along with a bio ethics committee if possible.
2. I would suggest formation of internal hospital committee (primary hospital medical board) as an essential inclusion.
3. Should not be restricted to hospitals having intensive care services. Deaths occur outside ICUs, wards, and emergency departments.
4. Much needed.
5. Hospital administrative professional bodies [Association of Healthcare Providers India (AHP) etc.] must reflect on advocacy measures to remove the unethical practice of leave/discharge against medical advice (LAMA/DAMA), which burdens the caregivers/family with guilt in a distressing crisis.



**Fig. A12:** Professional societies must take the lead in spreading death literacy and awareness among the public, healthcare administrators, and the government (NA, not applicable)

**Anonymous Comments**

1. More awareness, advocacy, articles, talk. Social media dissipation of appropriate information
2. This would help in dispelling a lot of myths related to intensive care along with awareness regarding the pedagogy of dying.
3. These initiatives can improve the quality of care, enhance the patient experience, and promote more compassionate and informed discussions about death and dying.
4. It can be done in association with other social groups as well.

**Any other comments related to this survey?**

1. This is among the most appropriately designed survey which I have answered.
2. I found some of the questions difficult and would be grateful for some in-person discussion. Thank you.
3. No.

**Appendix 1B: The Indian Society of Critical Care Medicine and Indian Association of Palliative Care Consensus Position Statements for End-of-Life Care and Palliative care in Indian Intensive Care Units – Round 2 Survey Report**

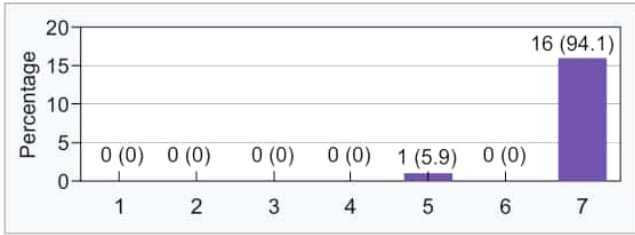
The Round 2 survey was created on “Google Forms” platform. The survey went live on 6 November 2023, with a window of 2 days for responses until 7 November 2023, at 6 pm (IST).

This survey was sent to 17 members of the taskforce and all of them completed the survey in the stipulated time frame. There were 12 questions in the survey, all ordinal Likert scale-based qualitative statements. A detailed report of the results of each question is presented below for your perusal. Minor edits have been made in the comments received to maintain the anonymity of the Experts.

Consensus	≥70% in favor of agree/ disagree, or ≥80% in favor of single option	Analyze for stability
Stability	$\chi^2$ for analysis, $p < 0.05$ is significant (not applicable for Round-1)	To Analyze and aim for stable consensus or dissensus. If stable, the question is dropped from the next round.

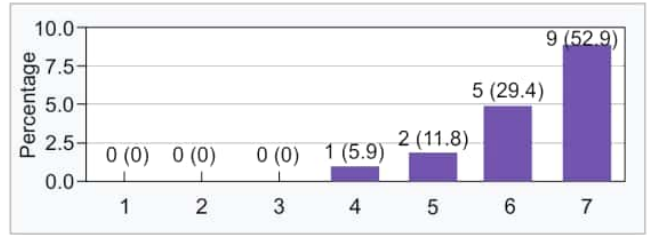
**Consensus Matrix**

Round	1		2	
Sections	1		1	
Question	12 Likert-scale statements	Total	12 Likert-scale statements	Total
Comment	89		9	
Sections	1		1	
Total questions	12	12	12	12
Consensus	11	11 (92%)	12	12 (100%)
Question dropped	NA		0	0
Question added	NA		0	0
Question changed	NA		0	1
Options changed	NA		1	0
Stability checked	NA		11	12
Stability achieved	NA	–	11	11 (92%)



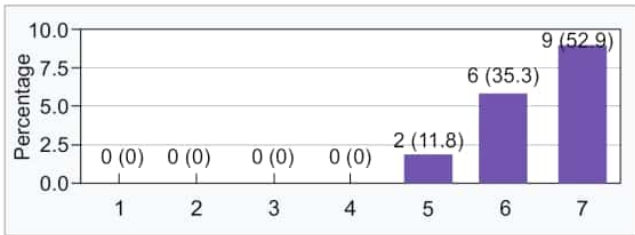
Status	Consensus	Stability
Consensus achieved but stability not checked	Yes (100%)	Yes (1.0)

**Q7** Fig. A13: Quality of dying is as important as other measures of quality of care in the ICU



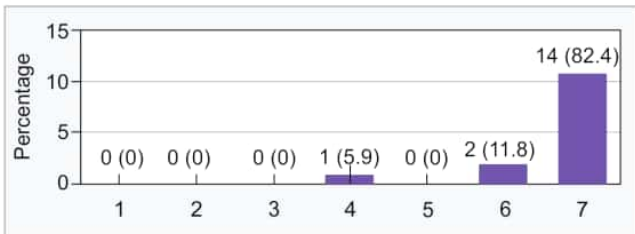
Status	Consensus	Stability
Consensus achieved but stability not checked	Yes (94.1%)	Yes (0.39)

Fig. A16: The ICU admission criteria should exclude patients whose disease/clinical status would clearly render ICU care to be of little or no benefit and a trial of ICU care is excluded



Status	Consensus	Stability
Consensus achieved but stability not checked	Yes (100%)	Yes (0.76)

Fig. A14: While discussing transitioning to palliative care, emphasis should be on the suffering of the patient than on the legality of treatment limitation



Status	Consensus	Stability
Consensus achieved but stability not checked	Yes (94.1%)	Yes (0.39)

Fig. A15: Along with terminal illness and impending mortality, severe irreversible disability burdensome to the patient should be included as a reason for a treatment limitation decision

Statement	Disagreement	Neutral	Agreement	Stability
1 For facilitating symptom control when it is difficult outside the ICU, ensuring that the GOC are well communicated to the family and care givers	1 (6%)	1 (6%)	15 (88%)	NA
2 Admission/ continuation of ICU care to facilitate deceased-organ donation	0	3 (18%)	14 (82%)	NA

Status	Consensus	Stability
Consensus achieved but stability not checked	Yes (1, 2)	NA

Fig A17: The once an EOLC plan is made for a patient, ICU admission or continuation in ICU is justified in the following circumstances

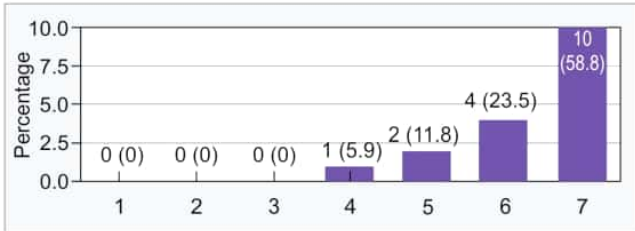
**Anonymous Comments**

1. The question itself clarifies that shift to ICU gets planned only when symptom management is difficult outside the ICU setup. As per my understanding- in the absence of well-established palliation units, a palliation area identified as an extension of the ICU would provide greater opportunities for better symptom



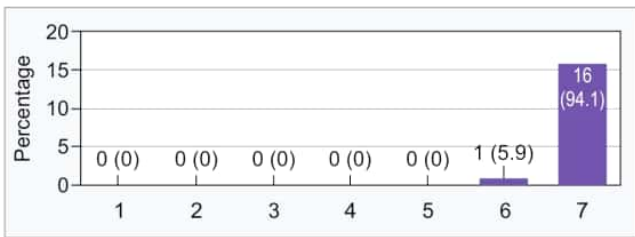
control (the limitations of an ICU setup probably are limiting the family connect due to rules in ICU if these can be relaxed the provision of EOL care in ICU can be a win-win situation).

2. It may seem unfair to use the ICU for symptom control and should be used in exceptional circumstances.
3. ICU provides a controlled environment for vital functions until the organ retrieval takes place.
4. Who will pay for ICU care? In India, DCD is not available.



Status	Consensus	Stability
Consensus achieved but stability not checked	Yes (94.1%)	Yes (0.53)

Fig. A18: The intensivist must take a leadership role in conducting multidisciplinary team and family meetings



Status	Consensus	Stability
Consensus achieved but stability not checked	Yes (100%)	Yes (0.75)

Fig. A19: While conveying available treatment options that may be potentially inappropriate, a "palliative care only" option should also be mentioned as a standard of care

Statement	Disagreement	Neutral	Agreement	Stability
1 The medical team should initiate serious illness conversations, guided by a "checklist" for setting GOC	0	0	17 (100%)	Yes (0.59)
2 The medical team should not take unilateral decisions even if an intervention is clearly futile	2 (12%)	0	15 (88%)	Yes (0.56)

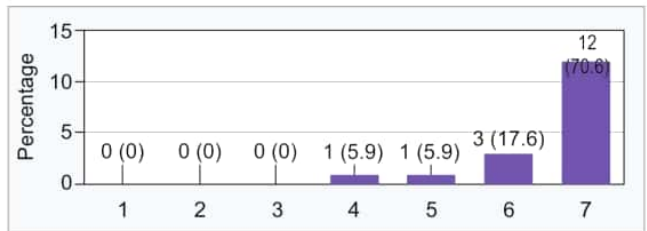
(Contd...)

(Contd...)

Statement	Disagreement	Neutral	Agreement	Stability
3 The medical team should provide considered recommendations and not merely provide a menu of options	0	0	17 (100%)	Yes (0.54)
4 The medical team must not burden the patient/family with the onus of taking treatment limiting decisions	1 (6%)	0	16 (94%)	Yes (0.18)
5 The medical team must not encourage or suggest the LAMA process when faced with ethical/financial dilemmas	0	0	17 (100%)	Yes (0.85)
6 The medical team must not impose their own views, but provide facts of the case and available options	0	0	17 (100%)	Yes (0.73)
7 The medical team must avoid the term "futility" that could be misconstrued as undervaluing the worth of the patient's life	1 (6%)	1 (6%)	15 (88%)	Yes (0.68)

Status	Consensus	Stability
Consensus achieved but stability not checked	Yes (1-7)	Yes (1-7)

Fig. A20: Which of the following role(s) of medical team are appropriate for communication and patient care in the context of EOL?



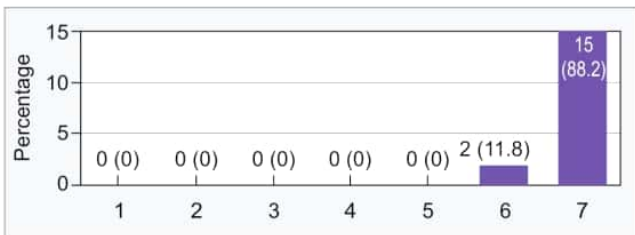
Status	Consensus	Stability
Consensus achieved but stability not checked	Yes (94.1%)	Yes (0.48)

Fig. A21: Withdrawal and WH are ethically similarly grounded and are legally equivalent

Statement	Disagreement	Neutral	Agreement	Stability
1 Intensive care staff training must cover competencies in EOL communication	0	0	17 (100%)	Yes (0.77)
2 Intensive care staff training must cover competencies in general PC	0	0	17 (100%)	Yes (0.78)
3 Intensive care staff training must include knowledge of biomedical ethics in EOL decision-making	0	0	17 (100%)	Yes (0.55)
4 Intensive care staff training must include knowledge of biomedical ethics in end-of-life decision-making	0	0	17 (100%)	Yes (0.74)

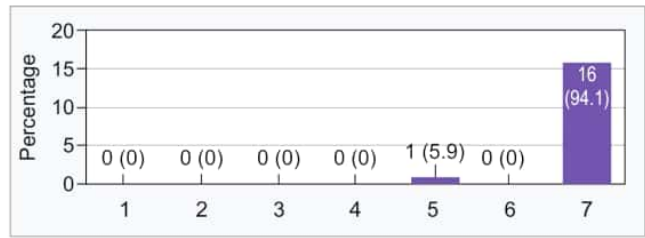
Status	Consensus	Stability
Consensus achieved but stability not checked	Yes (1-4)	Yes (1-4)

Fig. A22: Which of the following competencies should be included in the training for intensive care professionals?



Status	Consensus	Stability
Consensus achieved but stability not checked	Yes (100%)	Yes (1)

Fig. A23: Every hospital offering intensive care services must have and end of care policy and standard operating procedure for treatment limiting decision making



Status	Consensus	Stability
Consensus achieved but stability not checked	Yes (100%)	Yes (0.99)

Fig. A24: Professional societies must take the lead in spreading death literacy and awareness among the public, healthcare administrators, and the government

**Any Other Comment related to the Survey?**

- The observations of one of the respondents (comment 8 for question number 9) are keen observation. I would suggest a debate on this to help understand the finer interpretations.
- Excellent survey. Congratulations.
- Question 2 raises doubts about the legality of treatment limitation in the way it is phrased "While discussing transitioning to PC, emphasis should be on the suffering of the patient than on the legality of treatment limitation." – could this be better explored by juxtaposing ethical principles of "beneficence + nonmaleficence" with legality rather than suffering and legality. The misconceptions about legality of treatment limitation have held back ethical EOLC in ICU so far- we need to strengthen the ethical position of relief of suffering as standard of care, with legal safeguards Question 4 – in a private payer healthcare system, ICU admissions in patients who would not benefit from ICU care is sometimes done for social/spiritual/family reasons – transcontinental travel or awaiting a family ceremony to conclude. This can be considered part of palliative support for the family caregivers as long as principles of justice do not deny another sick patient of resources by this action.
- My only comment relates to the legal equivalence of WH and withdrawing treatment. I agree that these are equivalent legal actions in the sense that the same considerations that apply to WH apply to WD, and that the law does not see either of these actions as different in legal character. However, I continue to maintain that the Court has prescribed a slightly different procedure for WH as opposed to WD. It is difficult to say whether the Court has applied its mind to this or not, but I do think it makes practical sense that one does not have to intimate a Judicial Magistrate before deciding whether or not to administer antibiotics or whether or not to provide CPR. Especially for the latter, the time frame within which it would happen would never allow anyone to intimate the Judicial

Magistrate. Withdrawal, on the other hand, is more amenable to the onerous process prescribed by the court. To summarize, I think that WH and WD are legally equivalent actions in that they require the same process of decision making and that they have the same consequences. However, there remain minor procedural differences between the two.

- Q8 point2 informed nondissent about treatment limitation must be considered and may lead to de idioms like slow code which may otherwise be considered unethical.

**Appendix 1C: The Indian Society of Critical Care Medicine and Indian Association of Palliative Care Consensus Position Statements for End-of-life Care and Palliative care in Indian Intensive Care Units Round 3 Survey Report**

The Round three survey was created on a "Google Forms" platform. The survey went live on 10 November 2023, with a window of 1 day.

This survey was sent as an e-mail to 17 members of the taskforce.

There was 1 question in the survey, ordinal Likert scale-based qualitative statement.

Consensus	≥70% in favor of agree/ disagree, or ≥80% in favor of single option	Analyze for stability
Stability	$\chi^2$ for analysis, $p < 0.05$ is significant (not applicable for round-1)	To Analyze and aim for stable consensus or dissensus. If stable, the question is dropped from the next round.

	Statement	Disagreement	Neutral	Agreement	Stability
1	For facilitating symptom control when it is difficult outside the ICU, ensuring that the GOC are well communicated to the family and care givers	1 (6%)	1 (6%)	15 (88%)	Yes
2	Admission/ continuation of ICU care to facilitate deceased-organ donation	0	3 (18%)	14 (82%)	Yes

Status	Consensus	Stability
Consensus achieved but stability not checked	Yes (1, 2)	Yes ( $p = 1$ )

**Fig. A25:** Once an EOLC end-of-life care plan is made for a patient, the ICU admission or continuation in ICU is justified in the following circumstances

**Consensus Matrix**

Round	1		2		3	
	12 Likert-scale statements	Total	12 Likert-scale statements	Total	1 Likert-scale statement	Total
Sections	1		1		1	
Question	12	12	12	12	1	1
Consensus	11	11 (92%)	12	12 (100%)	1	1 (100%)
Question dropped	NA		0	0	0	0
Question added	NA		0	0	0	0
Question changed	NA		0	1	0	0
Options changed	NA		1	0	0	0
Stability checked	NA		12	12	1	1
Stability achieved	NA	-	11	11 (92%)	1	1 (100%)

## Appendix 1D

**Table A1:** Consensus and stability analysis of the ISCCM and IAPC consensus position statements for EOLC and palliative care in Indian intensive care units

Statements	Agree (%)	Neutral (%)	Disagree (%)	Median (IQR)	$\chi^2$ p-value
1. Quality of dying is as important as other measures of quality of care in the ICU	100	0	0	7 (0)	1.0
2. While discussing transitioning to PC, emphasis should be on the suffering of the patient than on the legality of treatment limitation	100	0	0	7 (1)	0.76
3. Along with terminal illness and impending mortality, severe irreversible disability burdensome to the patient should be included as a reason for a treatment limitation decision	94.1	5.9	0	7 (0)	0.39
4. ICU admission criteria should exclude patients whose disease/clinical status would clearly render ICU care to be of little or no benefit and a trial of ICU care is excluded	94.1	5.9	0	7 (1)	0.39
5. Once an EOL care plan is made for a patient, ICU admission or continuation in ICU is justified in the following circumstances:					
• For facilitating symptom control when it is difficult outside the ICU, ensuring that the GOC are well communicated to the family and care givers	88	6	6	7 (1)	1.0
• Admission/continuation of ICU care to facilitate deceased-organ donation	82	18	0	7 (2)	1.0
6. The Intensivist must take a leadership role in conducting multidisciplinary team and family meetings	94.1	5.9	0	7 (1)	0.53
7. While conveying available treatment options that may be potentially inappropriate, a "palliative care-only" option should also be mentioned as a standard of care	100	0	0	7 (0)	0.75
8. Which of the following role(s) of medical team are appropriate for communication and patient care in the context of end-of-life?					
• The medical team should initiate serious illness conversations, guided by a "checklist" for setting goals of care	100	0	0	7 (0.5)	0.59
• The medical team should not take unilateral decisions even if an intervention is clearly futile	88	0	12	7 (1)	0.56
• The medical team should provide considered recommendations and not merely provide a menu of options	100	0	0	7 (0)	0.54
• The medical team must not burden the patient/family with the onus of taking treatment limiting decisions	94	0	6	7 (1)	0.18
• The medical team must not encourage or suggest the LAMA process when faced with ethical/financial dilemmas	100	0	0	7 (0)	0.85
• The medical team must not impose their own views, but provide facts of the case and available options	100	0	0	7 (0)	0.73
• The medical team must avoid the term "futility" that could be misconstrued as undervaluing the worth of the patient's life	88	6	6	7 (1)	0.68
9. Withdrawal and withholding are ethically similarly grounded and are legally equivalent	94.1	5.9	0	7 (1)	0.48
10. Which of the following competencies should be included in the training for intensive care professionals?					
• Intensive care staff training must cover competencies in EOL communication	100	0	0	7 (0)	0.77
• Intensive care staff training must cover competencies in general palliative care	100	0	0	7 (0)	0.78
• Intensive care staff training must include knowledge of biomedical ethics in end-of-life decision-making	100	0	0	7 (0)	0.55
• Intensive care training must include competencies in the application of various modalities of treatment limitation	100	0	0	7 (0)	0.74
11. Every hospital offering intensive care services must have an end of life care policy and standard operating procedure for treatment limiting decision-making	100	0	0	7 (0)	1.0
12. Professional societies must take the lead in spreading death literacy and awareness amongst the public, healthcare administrators and the government	100	0	0	7 (0)	0.99

ICU, Intensive care unit; IQR, Interquartile range;  $\chi^2$ , Chi-square



**APPENDIX 2: COMMONLY USED DRUGS AND DOSING IN END-OF-LIFE CARE**

<i>Symptom</i>	<i>Drug</i>	<i>Dose</i>	<i>Other considerations</i>
Pain	Morphine	2.5 mg SC every 2 hours PRN	If already on regular morphine please see dosing guidance above 10 mg over 24 hours  In renal dysfunction, fentanyl- SC, transdermal; methadone, alfentanil 100 µg SC, 1–2 hourly, Maximum 500 µg in 24 hrs or transdermal buprenorphine can be used. However, if only morphine is available, it can be used but close monitoring is required by the physician*
Nausea	Haloperidol	500 µg SC every 2 hours PRN, 1.5 mg over 24 hours. Maximum total dose 5 mg over 24 hours	If nausea not controlled on another antiemetic, it can be used SC, Contraindicated in Parkinson's disease.
	Metoclopramide	10 mg SC PRN, maximum 40 mg in 24 hrs may be used as additional medicine (Clinical Guidelines for Symptom Control in the Adult Dying Inpatient final)	
Dyspnea	Morphine	2.5 mg SC every 2 hours PRN Total dose 5 mg–10 mg over 24 hours.	In case of significant anxiety associated with Dyspnea, Midazolam 2.5 mg PRN SC maximum 2 doses in 4 hours In renal dysfunction, 1 to 2.5 mg oral morphine or 1 mg SC and PRN with careful monitoring*
Respiratory secretions	Glycopyrronium	200 µg SC Every 2 hours PRN 600 micrograms to 1.2 mg over 24 hours. Maximum total dose 2.4 mg over 24 hours	Review parenteral and enteral fluids; consider risks vs benefits.
Agitation	Midazolam	2.5mg SC every 2 hours PRN Total dose 10mg over 24 hours	Consider other causes of agitation e.g. urinary retention
<ol style="list-style-type: none"> <li>1. If more than 2–3 doses in 24 hours consider continuous subcutaneous infusion (CSCI) or intermittent SC injections through SC scalp vein in home-setting</li> <li>2. If unsure, seek advice from the nearest PC team through in person/remote consultation or telephonically. Check the IAPC website directory for nearest service available at <a href="https://www.palliativecare.in/palliative-care-directory-of-india/">https://www.palliativecare.in/palliative-care-directory-of-india/</a> or call helpline '1800-202-7777'. PRN, pro re nata, which means "when necessary"</li> </ol>			

\*Prabhu RA, Salins N, Bharathi, Abraham G. End of life care in end-stage kidney disease. Indian J Palliat Care 2021;27:S37–S42. DOI: 10.4103/ijpc.ijpc\_64\_21.

**APPENDIX 3: DOCUMENTATION OF DECISION MAKING FOR END-OF-CARE PLAN**

**Part A: Ratification of Inappropriateness/Futility of care by primary physician and Primary Hospital Medical Board**

Clinical criteria favouring the terminal nature of illness	Decision (Agree/ disagree/ review after a time-limited trial)	Name/Signatures
--	---	-----------------

**Part B: Discussion with Patient (if with Capacity)/ Family/Legal Proxy**

*Diagnosis*

The patient/family or surrogate decision makers been explained and have understood the diagnosis, prognosis and terminal and irremediable nature of the illness(es).

The patient/family understand and concur with the inappropriateness/futility of aggressive life-sustaining intervention.

The patient/family/legal proxy, with full understanding refuse initiating/continuing such life-sustaining interventions that have a higher potential to increase suffering without any reasonable clinical benefit.

Considering the circumstances, the goal of care be transitioned to comfort care.

Name	Relationship	Signature
------	--------------	-----------

**Part C: Ratification of Inappropriateness/Futility of Life-sustaining Therapies by Secondary Medical Board**

Clinical criteria favouring the terminal nature of illness	Decision (Agree/ disagree/ review after a time-limited trial)	Name/Signatures
--	---	-----------------

**Part D: Final Recommendations**

Decision (Agree/ disagree/ review after a time-limited trial)	Name/Signatures
---	-----------------

The patient has a terminal illness with no reasonable chance of recovery and the burden or/and harm of medical interventions outweigh the benefits

**Part E: Care Plan for transition\*\*\* (Tick whichever is appropriate as per the consensus decision) Treatment to cease at time agreed by the family**

	Continue	Do not escalate	Cease
<i>Respiratory support</i>			
Oxygen support	Continue	Do not escalate	Cease
Non-invasive ventilation	Continue	Do not escalate	Cease
DNI	Yes		No
Invasive ventilation	Continue	Terminal weaning	Terminal extubation
<i>Cardiovascular support</i>			
Vasoactive Medications	Continue	Do not escalate	Cease
Intravenous fluids	Continue	Alternative route for terminal hydration	Cease
Intra-aortic balloon pump	Continue	Do not escalate	Cease
Pacemaker	Continue		Consider deactivation
ECMO/LVAD/ICD			Consider deactivation
DNAR	Yes		No
<i>Renal replacement</i>			
HD/SLEDD/CRRT/PD	Continue	Do not escalate	Cease
<i>Nutritional support</i>			
NG feed			
PEG feed			
TPN			

(Contd...)



(Contd...)

<i>Medications</i>			
Antibiotics	Continue	Do not escalate	Cease
Non-palliative medications	Continue	Do not escalate	Cease
<i>Monitoring</i>			
Pulse-oximetry	Continue		Cease
ECG	Continue		Cease
Blood pressure	Continue		Cease
<i>Invasive lines/devices</i>			
ICP monitor/EVD	Retain		Remove
TPI/TCP			
Peripheral canula	Retain		Remove
Urinary catheter	Retain		Remove
<i>Any other</i>			
<i>Investigations</i>			
<i>Blood</i>			
<i>Radiology</i>			
Palliative sedation	Yes		No
#Organ donation discussed (if applicable)	Offered/family requests	Willing	unwilling
#Tissue donation considered	Offered/family requests	Willing	unwilling
Consideration of going home to die	Offered/family requests	Willing	Unwilling/not feasible
Move to private room (If available)	Offered/family requests	Willing	Unwilling/not feasible
Spiritual/religious/cultural support	Requested/offered		Provided

\*\*\*Involve palliative care services if available, to ensure smooth transition. Ensure appropriate access for administration of palliative medications. Prepare the family about the unpredictability of precise time of demise in the aftermath of withdrawal and withholding of life-sustaining treatments. Assurance to family that due care will be taken to alleviate pain and symptom control. Visiting to be liberalized (number of visitors, timings, duration) as far as is practicable. #Initiation of requests for donation should be by a transplant coordinator, not by the treating/ICU/transplant teams. The process for organ donation should be delinked from discussions around foregoing of life-sustaining treatments. If organ donation is considered, follow institute specific protocols for donation after brain death or cardiac death whichever is applicable. CRRT, continuous renal replacement therapy; DNAR, do not attempt resuscitation; ECG, electrocardiogram; ECMO, extra-corporeal membrane oxygenation; EVD, external ventricular drainage; HD, hemodialysis; ICD, implantable cardioverter-defibrillator; ICP, intracranial pressure; LVAD, left ventricular assist device; NG, nasogastric; PD, peritoneal dialysis; PEG, percutaneous endoscopic gastrostomy; SLEDD, sustained low-efficiency daily dialysis; TCP, transcutaneous cardiac pacing; TPN, total parenteral nutrition; TPI, temporary pacemaker implantation

**Consent by Family Members**

Name	Relationship	Signature
------	--------------	-----------

**Form Completed by**

Name	Designation	Signature
------	-------------	-----------