### CHALLENGES OF PALLIATIVE CARE IMPLEMENTATION IN RURAL AREA OF ASIAN COUNTRIES: A SCOPING REVIEW.

Rondhianto<sup>1</sup>, Muhamad Zulfatul A'la<sup>2\*</sup>, Ahmad Rifai<sup>3</sup>, Nurfika Asmaningrum<sup>4</sup>, Ika Adelia Susanti<sup>5</sup>, Satriyo Hadi Satwika<sup>6</sup>, Muhamad Saiful Arifin<sup>7</sup>, Apiradee Pimsen<sup>8</sup>

1,2,3,4,5,6,7 Faculty of Nursing, Universitas Jember, Indonesia

8 Faculty of Nursing, Mahidol University, Thailand

Corresponding author: Faculty of Nursing, Universitas Jember, Indonesia, m.zulfatul@unej.ac.id

#### **ABSTRACT**

Background: Palliative care is essential for improving the quality of life of patients with lifelimiting illnesses. However, rural areas in Asian countries face numerous barriers to implementing effective palliative care services due to geographic, systemic, and sociocultural factors This scoping review aimed to explore the challenge implementation palliative care in rural areas of Asian countries based on WHO six building blocks. Methods: This scoping review employed Arksey and O'Malley's framework and PRISMA-ScR guidelines. A systematic search was conducted in Scopus, PubMed, and CINAHL databases, yielding 210 records. After screening and applying inclusion criteria, 12 articles published between 2015 and 2025 were included. These studies covered rural settings in India, Indonesia, China, Nepal, the Philippines, Bangladesh, and Kazakhstan. Data were synthesized using WHO's Six Building Blocks of health systems as an analytical framework. Results: The analysis revealed critical challenges including fragmented service delivery, shortage of trained healthcare professionals, weak health information systems, limited access to opioids and essential medicines, financial barriers, and inadequate governance. Cultural issues, such as stigma surrounding death and reliance on family caregiving, further impeded palliative care access. Some innovative approaches, like community-based models and telehealth interventions, showed promise in overcoming these challenges. Conclusion: Strengthening rural palliative care systems in Asia requires multi-level interventions focusing on workforce development, equitable financing, culturally sensitive service models, and robust governance. Future research should explore scalable, context-specific solutions such as integrating palliative care into primary health systems and leveraging digital health innovations to improve access in resourcelimited rural settings.

Keywords: palliative care, rural area, implementation challenges, Asia



Faculty of Nursing, University of Jember, Indonesia

#### Introduction

Palliative care has become a critical element of global healthcare systems, particularly due to the rising prevalence of chronic, progressive, and terminal illnesses such as cancer, cardiovascular diseases. chronic respiratory conditions, neurodegenerative disorders(Connor et al., 2020). Palliative care, as defined by the WHO, is "an approach that improves the quality of life of patients and their families facing the problems associated with lifeillness" through limiting the identification, assessment, and treatment of pain and other physical, psychosocial, and spiritual issues, thereby playing a crucial role in contemporary medicine (WHO, 2020). The integration of palliative care into national health systems is progressively recognized as necessary not only for improving patient outcomes but also for improving the emotional, social, and financial burdens on families and caregivers (Reville & Foxwell, 2014)

In high-income countries (HICs), vigorous palliative care services have been proven to reduce hospitalizations, improve symptom management, and enhance end-oflife experiences (Gomes et al., 2012). These benefits are achieved through multidisciplinary approaches that include medical, nursing, psychological, and spiritual care tailored to individual needs (National Consensus Project for Quality Palliative Care, 2018). However, despite its evidenced value, access to palliative care remains highly imbalanced across the globe. According to the WHO (2021), less than 14% of people who require palliative care currently receive it, with the majority living in low- and middle-income countries (LMICs). This disparity underscores the urgent need to expand palliative care coverage, especially in underserved regions where the demand is rising due to demographic and epidemiological transitions.

Within both HICs and LMICs, disparities in palliative care access are totally evident between urban and rural areas. Rural populations face significant barriers to receiving timely and appropriate palliative care due to geographic isolation, limited infrastructure, and shortages of trained healthcare professionals (Shi et al., 2025). These challenges are strengthened by socioeconomic factors, including poverty, education levels. and lower limited transportation options, which further restrict access to expert services (Salikhanov et al., 2023). Additionally, the lack of specialized palliative care providers such as hospice physicians, palliative care nurses, and bereavement counselors in rural settings limits the availability of comprehensive care (Rainsford et al., 2017). As a result, rural patients often count on general practitioners or family members for end-of-life care, which may not be adequate to manage complex symptoms or provide psychosocial support (Freeman et al., 2024). Thus, addressing the unique challenges faced by populations requires targeted interventions that consider local contexts, available resources, and cultural norms.

Despite the increasing recognition of palliative care as a public health priority, there remains a significant gap in understanding how it is implemented or fails to be implemented in rural areas of Asian countries. Palliative care in Asia is at varying stages of development, with some countries having promising programs and others



Faculty of Nursing, University of Jember, Indonesia

lacking formal policies altogether al., Cultural (Fereydooni et 2022). differences in attitudes toward death, dying, and caregiving influence the acceptance and delivery of palliative care services (Cain et al., 2018). For example, in many Asian cultures, discussing death openly considered taboo, which can hinder advance care planning and open communication about prognosis (Martina et al., 2021). Economic disparities within and between Asian countries affect the availability affordability of palliative care services. Many rural areas in South and Southeast Asia lack basic healthcare infrastructure, let alone specialized palliative care (Wang et al., 2024). Given these complexities, it is crucial to conduct region-specific analyses that account for the sociocultural, economic, and health system dynamics unique to Asia. such Without insights, recommendations risk being uneven with local realities, thereby failing to address the actual needs of rural populations in the region.

This scoping review addresses two critical gaps in the literature: (1) the lack of region-specific evidence on rural palliative care in Asia, and (2) the absence of a systematic health systems approach in evaluating the barriers and enablers of service delivery. By focusing exclusively Indonesia and applying the WHO Six Building Blocks as an analytical framework, this review offers a novel and comprehensive perspective that can inform policy and practice. Furthermore, the review will map the existing literature to identify key themes, trends, and knowledge gaps, providing a future foundation for research intervention design. It will also highlight

successful models and innovations from different parts of Asia that could be adapted or scaled up to improve rural palliative care access.

#### Method

This scoping review was conducted the methodological using framework developed by Arksey and O'Malley, which includes five key stages: (1) identifying the research question, (2) identifying relevant studies, (3) selecting the studies, (4) charting the data, and (5) collating, summarizing, and reporting the results (Arksey & O'Malley, 2005). The review was also guided by the Preferred Reporting Items for Systematic Reviews and Meta-Analyses extension for Scoping Reviews (PRISMA-ScR) to ensure transparency and methodological rigor (Page et al., 2021). The PRISMA 2020 flow diagram was used to document the study selection process.

The formulation of the research question was guided by the need to explore and synthesize the existing literature on barriers palliative (PC) to care implementation in rural areas of Asian countries. The overarching question was: "What are the kev challenges implementing PC in rural areas of Asian countries?" This question was developed in alignment with the World Health Organization (WHO) Health System Framework, which includes six core building blocks: service delivery, health workforce, health information systems, access to essential medicines, financing, and leadership/governance. These building blocks provided a structured lens for classifying and interpreting the challenges reported in the literature.



Faculty of Nursing, University of Jember, Indonesia

identify relevant studies, comprehensive search strategy was developed and implemented across four electronic databases: CINAHL, EBSCOhost, and ProQuest. The search was limited to peer-reviewed articles published between January 2015 December 2025, in order to capture contemporary evidence from the last decade. The search terms were developed based on Medical Subject Headings (MeSH) and keywords relevant to palliative care, rural settings, and health service challenges. The Boolean search string used was: ("palliative care" OR "end of life care" OR "hospice care") AND ("rural area" OR "remote area" OR "rural population") AND ("implementation" OR "access to care" OR "health service delivery" OR barriers OR challenges). The search strategy was designed to be broad enough to capture a range of study types while maintaining specificity to the topic of rural palliative care implementation in Asia.

The initial database search yielded a total of 210 records. After removing 65 duplicates, 145 unique records remained for screening. These were assessed based on their titles and abstracts. During this stage, inclusion and exclusion criteria were applied systematically. Studies were eligible for inclusion if they were published in English between 2015 and 2025, conducted in Asian countries, explicitly addressed challenges or barriers to palliative care, and focused on rural or remote areas. Only original research articles were considered; grey literature, systematic reviews, opinion papers, and protocols were excluded.

Following the initial screening, 99 articles were identified for full-text retrieval

and assessment. Of these, 20 could not be retrieved due to access limitations. Among the 79 retrieved full texts, 67 articles were excluded for not meeting the eligibility criteria. Specifically, 55 studies were conducted outside Asia, and 12 did not provide sufficient detail on the challenges or barriers to palliative care. Ultimately, 12 studies met all inclusion criteria and were included in the final synthesis. This selection process is illustrated in the PRISMA 2020 flow diagram (Figure 1)

Data extraction was conducted using a standardized charting form developed prior to analysis. Key information extracted from each study included the author(s), year of publication, country of origin, study design, characteristics, population type intervention (if any), main findings related to implementation barriers, and the relevant WHO health system building blocks to which these findings pertained. Two independent reviewers conducted the data extraction process to ensure accuracy and consistency. Discrepancies were discussed and resolved through consensus.

Once data were charted, a thematic synthesis approach was used to collate and analyze the results. The reported challenges were mapped onto the six WHO health system building blocks to identify patterns, overlaps, and unique barriers in rural Asian approach facilitated contexts. This understanding comprehensive of both systemic and context-specific obstacles to palliative care implementation. It also enabled the classification of findings in a way that aligns with health systems strengthening frameworks, which is critical for informing policy, practice, and future research.



Faculty of Nursing, University of Jember, Indonesia

ensure the credibility To methodological quality of the included studies, a critical appraisal process was undertaken using appropriate tools based on study design. Qualitative studies were assessed using the Consolidated Criteria for Reporting Qualitative Research (COREO) checklist, focusing on key elements such as research team reflexivity, study design transparency, and data analysis rigor. For quantitative cross-sectional studies, Joanna **Briggs** Institute (JBI) appraisal checklist was employed to evaluate aspects such as sampling strategy, validity of statistical analysis. measurement. response rates. Three independent reviewers conducted the critical assessment process. Each reviewer appraised all included studies independently, and discrepancies resolved through group discussion to reach consensus. This triangulated review process strengthened the reliability of the appraisal and ensured that only studies meeting a minimum threshold of methodological rigor were included in the final synthesis.

The studies included in the final analysis represented a diversity of geographic and socio-political settings across Asia, including Indonesia. China. India. Bangladesh, Kazakhstan. and Methodologically, the selected studies employed qualitative, quantitative, mixed-method designs, providing multifaceted understanding of the challenges Despite this variation, recurring themes emerged, particularly around workforce limitations, restricted access to opioids, fragmented service delivery, inadequate financial support, and weak governance structures. By clustering the findings according to the WHO building blocks, this review offers a structured synthesis that not only describes the barriers but also illuminates areas for strategic intervention in rural health systems across Asia.

#### Result

This scoping review examined 12 the challenges PC studies on implementation in rural areas of Asian countries. Applying the WHO Health System Framework's six building blocks—service health workforce. delivery, health information systems, access to essential medicines. financing, leadership/governance—the analysis identified systemic sociocultural and challenges across diverse rural contexts (World Health Organization, 2007). Table 1 explained for further detail related the articles that analyzed.

#### 1. Service Delivery

Fragmented and delayed service provision emerged as a key challenge due to geographic barriers, inadequate transportation, and underdeveloped referral systems. Gupta et al. (2024) noted poor integration of palliative care into primary health services in rural North India, exacerbated by logistical isolation. Similarly, Qanungo et al. (2021) found that late referrals and low awareness of terminal diagnoses hindered timely homebased care.

Cultural factors further impeded service uptake, including stigma around death and reliance on traditional medicine (Butola et al., 2021; Gupta et al., 2024). Wicaksono et al. (2025) highlighted how social norms and family dynamics in Indonesia delayed discussions on symptom management and end-of-life care. Marginalized groups, such



Faculty of Nursing, University of Jember, Indonesia

as rural military families and low-caste populations, faced additional accessibility barriers (Prajitha et al., 2023), underscoring the need for culturally adapted service models.

#### 2. Health Workforce

A critical shortage of trained palliative care providers was widely reported. Many community health workers (CHWs) lacked formal training (Prajitha et al., 2023), while physicians often misunderstood palliative care as solely end-stage cancer treatment (Biswas et al., 2021). Fear of opioid misuse and legal restrictions further limited pain management (Biswas et al., 2021; Qanungo et al., 2021). Tele-mentorship initiatives like Project ECHO showed potential in capacity-building, though internet connectivity and time constraints hindered participation (Doherty et al., 2021)

#### 3. Health Information Systems

Gaps in health information systems led to delayed diagnoses and poor care coordination. Studies noted inadequate data sharing, undocumented patient needs (Butola et al., 2021; Qanungo et al., 2021), and low digital literacy among providers (Guo et al., 2023). Informal care coordination, reliant on oral communication, further complicated service delivery (Wicaksono et al., 2025) These findings highlight the need for interoperable digital tools and standardized documentation.

### 4. Access to Essential Medicines and Technologies

Limited opioid availability due to stockouts, legal restrictions, and storage issues was a recurring barrier (Gupta et al., 2024; Salikhanov et al., 2023). Patients often turned to non-evidence-based remedies (Wicaksono et al., 2025). While telehealth offered

potential, infrastructure gaps and provider unfamiliarity limited its effectiveness (Doherty et al., 2021; Guo et al., 2023). Decentralized supply chains and enhanced pharmacological training are urgently needed.

#### 5. Financing

Financial barriers, including out-of-pocket costs and lack of insurance coverage, disproportionately affected rural populations (Chen et al., 2023). In Indonesia and China, home-based palliative care was often unaffordable (Niu et al., 2025; Wicaksono et al., 2025). Marginalized groups frequently avoided care due to cost concerns (Gupta et al., 2024; Prajitha et al., 2023). Integration into universal health coverage and community-based financing models could mitigate these challenges.

#### 6. Leadership and Governance

Weak policy frameworks and inconsistent guidelines hindered implementation. In China, village doctors lacked clear mandates (Song et al., 2025), while Indian providers faced legal ambiguities in opioid use and end-of-life decisions (Butola et al., 2021; Qanungo et al., 2021). Strengthening multisectoral collaboration and participatory governance could enhance accountability and service sustainability (Prajitha et al., 2023; Wicaksono et al., 2025).

#### Discussion

This scoping review systematically mapped the challenges of implementing palliative care (PC) in rural areas of Asian countries, utilizing the WHO's Six Building Blocks as a conceptual framework. The findings demonstrate significant structural, cultural, and systemic barriers that impede equitable access to PC for rural populations, highlighting the urgent need for health



Faculty of Nursing, University of Jember, Indonesia

system strengthening tailored to these unique contexts.

The review identified pervasive service delivery gaps in rural settings, including fragmented care pathways, limited infrastructure, and logistical challenges. These findings echo Stockton et al.'s (2021) integrative review of rural community health services. which found that service fragmentation and lack of culturally tailored models are recurring issues globally. In Asia, these challenges are further compounded by entrenched cultural beliefs surrounding death and dying (Wicaksono et al., 2025; Yen, 2013). This underscores the relevance of the WHO's emphasis on integrating community engagement and cultural competency within service delivery models (World Health Organization, 2007).

Human resources emerged as another critical barrier, with shortages of trained PC professionals and community health workers (CHWs) reported across most included studies. This aligns with findings from Knaul et al. (2018) who highlighted the global deficit in palliative care-trained providers, particularly in low- and middle-income countries (LMICs). In rural Asia, where taskshifting to CHWs is often proposed as a solution, the lack of formal training and support limits effectiveness (Prajitha et al., 2023). The WHO framework emphasizes the need for health workforce robust development, including training, mentoring, and retention strategies for rural areas.

Challenges in health information systems were also evident, with studies citing poor documentation, limited data sharing, and inadequate use of digital health tools (Guo et al., 2023; Wicaksono et al., 2025). Strengthening health information systems is

vital for coordinating PC delivery and monitoring outcomes (Allsop et al., 2022; Narvaez, 2024). In Asian rural settings, however, low digital literacy and infrastructure deficits hinder the implementation of telehealth and electronic medical records (EMRs) (Tegegne et al., 2023).

Access to essential medicines, particularly opioids for pain management, remains a substantial barrier due to regulatory restrictions. stockouts. and provider hesitancy (Gupta et al., 2024; Salikhanov et al., 2023). These findings are congruent with Clark et al. (2023), who documented restrictive opioid policies in India, leading to untreated pain among PC patients. The WHO advocates for balanced policies that ensure opioid availability while preventing misuse, a recommendation yet be to widely operationalized in rural Asian contexts (Cleary et al., 2013).

Financial constraints were a recurrent theme, with out-of-pocket expenses and lack of insurance coverage limiting access to PC services (Chen et al., 2023; Niu et al., 2025). This finding resonates with Peeler et al. (2024), who identified financial toxicity as a significant barrier to PC in LMICs. Integration of PC into universal health coverage (UHC) schemes, as advocated by the WHO, could mitigate these financial barriers and promote equity (Mitchell et al., 2024; Sánchez-Cárdenas et al., 2023)

Leadership and governance challenges, including weak policy frameworks, inconsistent guidelines, and limited multisectoral collaboration, were reported across several studies (Butola et al., 2021; Song et al., 2025)). These governance gaps impede the institutionalization of PC



Faculty of Nursing, University of Jember, Indonesia

and the development of sustainable rural models. Drawing on the WHO framework, strengthening governance structures and fostering community participation are critical for ensuring accountability and responsiveness to local needs (Clapham et al., 2025)

A key strength of this review lies in its systematic use of the WHO Six Building Blocks to categorize barriers, providing a comprehensive and structured analysis of health system gaps. The focus on Asia fills an important evidence gap, given that most existing PC literature is Western-centric. Additionally, the inclusion of studies from diverse Asian countries enhances transferability of findings across similar LMIC settings. However, several limitations must be acknowledged. The exclusion of non-English language studies may have led to the omission of relevant local research. Also, the scoping review design precludes critical appraisal of study quality, which limits the ability to assess the robustness of individual findings.

#### Conclusion

The challenges identified in this scoping review underscore the need for multi-level interventions to strengthen rural palliative care systems in Asia. Integrating PC into primary health systems, investing in rural workforce development, improving access to essential medicines, and fostering culturally sensitive governance are critical priorities.

Future research should focus on evaluating innovative models, such as telehealth and community-based participatory approaches, to inform scalable and contextually appropriate solutions. Moreover, longitudinal studies are needed to examine the long-term impact of health system interventions on PC outcomes in rural areas. Research exploring the integration of palliative care into universal health coverage schemes and investigating digital health innovations in resource-limited settings would provide valuable insights for policy and practice.



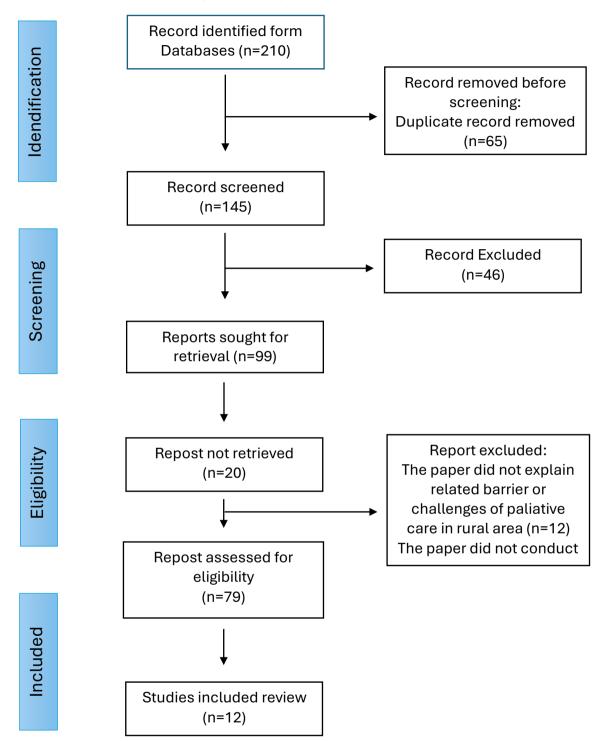


Figure 1. Literature screening process using PRISMA



Table 1. Table of evidence-resume of article related the challenges in rural PC

No	Authors	Aims	Study	Sample	Data	Main finding related
			Design		Analysis	Challenges of PC
					Techniques	
1	Gupta et	To explore	Participator	256 cancer	Descriptive	-Lack of trained palliative
	al. (2024)	palliative care	y Action	patients and	statistics	personnel in rural areas
		needs and	Research;	526	(quantitative)	- Social stigma and
		barriers to	Mixed-	stakeholders	, thematic	discrimination
		accessing PC	method	(patients,	analysis	- Low public awareness of
		services	(quantitativ	caregivers,	(qualitative)	cancer and palliative care
		among cancer	e and	community		- Geographical distance and
		patients in	qualitative)	health		transportation cost
		rural North		workers,		- Dependence on traditional
		India		village		medicine
				leaders,		- Shortage of essential and
				medical		opioid medications
				staff)		
2	Prajitha et	To identify	Qualitative	7 key	Manual	-Extreme poverty
	al. (2023)	community-	(Communit	informants, 4	thematic	- Social stigma, especially
		based	y-Based	FGDs (7–8	analysis with	for cancer
		palliative care	Participator	people each),	hybrid	- Physical access issues
		needs and	y Research)	including	coding	- Shortage of trained health
		factors for		ASHA,		staff
		sustainability in rural		AWW,		- Low public perception of
		Puducherry		community volunteers,		palliative care - Caste system impeding
		ruducherry		Sanjeevan		service acceptance
				team		service acceptance
3	Butola et	To investigate	Qualitative:	15 adult	Verbatim	- Rural service area access
	al. (2021)	caregivers'	thematic	caregivers	transcription,	gaps
	un (2021)	experiences	analysis of	(armed	thematic	- Lack of awareness about
		and challenges	semi-	forces	coding,	services and rights
		in armed	structured	personnel or	grounded	- Late referrals to palliative
		forces	interviews	family)	theory	care
		palliative care		providing	analysis	- Use of
				home-based	-	alternative/traditional
				palliative		medicine delaying treatment
				care within		- Difficulty obtaining leave
				the past 3		and organizational support
				years		



4	Qanungo	To explore	Qualitative	20	Thematic	- Late access to care
	et al.	barriers,	descriptive	participants	content	- Patients unaware of
	(2020)	facilitators,		(10 health	analysis,	terminal diagnosis
		and strategies		professionals	dual-coder	- High cost (transport,
		for		, 10	validation	medication)
		implementing		patients/fami		- Morphine stigma
		home-based		ly members)		- Cultural/family dynamics
		palliative care		at Saroj		- Resistance from formal
		in Kolkata		Gupta		professionals
				Cancer		
				Center,		
	D 1 .	T 1 1	D : .:	Kolkata	D : .:	T: 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
5	Doherty	To evaluate	Descriptive	Health	Descriptive	- Limited pediatric palliative
	et al.	impact of	report with	professionals	statistics	services
	(2021)	Project ECHO	online	in South Asia		- Lack of provider training
		virtual	survey	(18 initial		- Inadequate pain
		learning on		survey		management knowledge
		pediatric palliative care		participants)		- Morphine prescribing hesitancy
		capacity in				- Internet/connectivity issues
		South Asia				- Busy schedules
		South Asia				- Low survey response rate
6	Wicakson	То	Ethnograph	49	Reflexive	- Shortage of professional
	o et al.	ethnographical	ic study	participants	thematic	palliative care
	(2025)	ly examine	10 2000	including	analysis of	- Health system and
	(====)	how families		patients,	in-depth	awareness gaps
		navigate		family	interviews	- Financial/geographic
		palliative care		caregivers,		barriers
		in resource-		healthcare		- Lack of insurance for home
		limited		providers; 12		care
		Indonesian		household		- No national system
		settings		observations		integration
				in		- Emotional issue avoidance
				Banyumas,		- CAM delays care
				Indonesia		
7	Salikhano	To identify	Qualitative	29	Descriptive	- Poor caregiver skills
	v et al.	caregiver	description	participants:	analysis	- Need for mobile home
	(2023)	challenges and		12 family		services
		recommendati		caregivers,		- High cost and income loss
		ons for		12 healthcare		- Lack of formal training
		improving		professionals		- Opioid shortage
		rural PC		, 5		- Low public awareness
		outcomes in		administrator		- Lack of government
	1	Kazakhstan		S		support



8	Biswas et al. (2021)	To assess physicians' knowledge and misconception s about PC in Bangladesh	Quantitativ e (Cross- sectional)	physicians from various disciplines in Bangladesh	Descriptive statistics	- Misconceptions hinder patient identification - Belief that palliative care is only for cancer/terminal - Belief care must occur in hospital - Underutilization of concurrent treatments
9	Guo et al. (2023)	To determine telehealth readiness among specialist PC nurses and associated factors in China	Quantitativ e descriptive (cross- sectional)	409 certified palliative care nurses from 28 provinces in China	t-test, ANOVA, Spearman correlation	- Lack of certified palliative nurses - High workload - Little telehealth training - Need for readiness improvement
10	Chen et al. (2023)	To evaluate association of financial toxicity with symptoms and unplanned care among oral chemotherapy patients	Quantitativ e Prospective observation al	151 oral chemotherap y patients in Southern China	Descriptive stats, ANOVA, t-test, logistic regression	- Lack of support for home chemotherapy patients - Financial burden delays care seeking - Rural/urban disparities
11	Niu et al. (2025)	To assess self-reported PC knowledge and barriers among rural Chinese healthcare professionals	Quantitativ e (Cross- sectional)	255 healthcare professionals in rural hospitals, Henan, China	Descriptive & inferential stats, regression, validated questionnaire s	- Lack of formal training - Cultural death taboos - Unequal insurance - Poor interdisciplinary communication
12	Song et al. (2025)	To explore village doctors' roles and challenges in end-of-life care in rural China	Qualitative phenomeno logy	46 village doctors in Henan and Shandong (avg. 29.2 years experience)	Thematic reduction and coding of verbatim transcripts	<ul> <li>Limited medical resources</li> <li>Strict narcotics control</li> <li>Cultural taboos</li> <li>No standard training</li> <li>Family decision-making</li> <li>Lacking spiritual/psych support</li> <li>Poor health education</li> </ul>



Faculty of Nursing, University of Jember, Indonesia

#### References

- Allsop, M. J., Chumbley, K., Birtwistle, J., Bennett, M. I., & Pocock, L. (2022). Building on sand: digital technologies for care coordination and advance care planning. *BMJ Supportive & Palliative Care*, 12(2), 194–197.
  - https://doi.org/10.1136/bmjspcare-2021-003304
- Arksey, H., & O'Malley, L. (2005). Scoping studies: towards a methodological framework. International Journal of Social Research Methodology, 8(1), 19–32. https://doi.org/10.1080/13645570320 00119616
- Biswas, J., Banik, P. C., & Ahmad, N. (2021). Physicians' knowledge about palliative care in Bangladesh: A cross-sectional study using digital social media platforms. *PLoS ONE*, *16*(9 September). https://doi.org/10.1371/journal.pone. 0256927
- Butola, S., Bhatnagar, S., & Rawlinson, F. (2021). Caring and Conflict-Palliative Care in the Armed Forces: The Challenges for Caregivers. *Indian Journal of Palliative Care*, 27(3), 405. https://doi.org/10.25259/IJPC\_393\_20
- Cain, C. L., Surbone, A., Elk, R., & Kagawa-Singer, M. (2018). Culture and Palliative Care: Preferences, Communication, Meaning, and Mutual Decision Making. *Journal of*

- Pain and Symptom Management, 55(5), 1408–1419. https://doi.org/10.1016/j.jpainsymma n.2018.01.007
- Chen, Y., Chen, Z., Jin, H., Chen, Y., Bai, J., & Fu, G. (2023). Associations of financial toxicity with symptoms and unplanned healthcare utilization among cancer patients taking oral chemotherapy at home: a prospective observational study. *BMC Cancer*, 23(1).
  - https://doi.org/10.1186/s12885-023-10580-4
- Clapham, S., Clark, K., Draper, K., Mastroianni, F., Rand, J., Redwood, L., & Currow, D. (2025). A National Initiative Quality to **Improve** Palliative Care Outcomes: Identifying Enabling Factors that Drive **Ouality** Improvement. Palliative Medicine Reports, 6(1), 241-250.
  - https://doi.org/10.1089/pmr.2024.00 92
- Clark, J., Salins, N., Daniel, S., Currow, D.
  C., Jones, L., Pearson, M., Bunton,
  R., Mankel, J., Braithwaite, C.,
  Gilchrist, M. M., & Johnson, M. J.
  (2023). Views and experiences of
  opioid access amongst palliative care
  providers and public representatives
  in a low-resource setting: A
  qualitative interview study. *PLOS Global Public Health*, 3(9),
  e0002401.
  - https://doi.org/10.1371/journal.pgph. 0002401



Faculty of Nursing, University of Jember, Indonesia

- Cleary, J., Radbruch, L., Torode, J., & Cherny, N. I. (2013). Formulary availability and regulatory barriers to accessibility of opioids for cancer pain in Asia: a report from the Global Opioid Policy Initiative (GOPI). *Annals of Oncology*, 24, xi24–xi32. https://doi.org/10.1093/annonc/mdt5 00
- Connor, S. R., Connor, S., Claire, W. •, Ma, M., & Jaramillo, E. (2020). *Global Atlas of Palliative Care 2nd Edition*. www.thewhpca.orgwww.thewhpca.org
- Doherty, M., Rayala, S., Evans, E., Rowe, J., Rapelli, V., & Palat, G. (2021). Using Virtual Learning to Build Pediatric Palliative Care Capacity in South Asia: Experiences of Implementing a Teleteaching and Mentorship Program (Project ECHO). JCO Global Oncology, 7(7), 210–222.
- https://doi.org/10.1200/GO.20.00481 Fereydooni, S., Lorenz, K. A., Ganesh, A., Satija, A., Spruijt, O., Bhatnagar, S., Gamboa, R. C., Singh, N., & Giannitrapani, K. F. (2022).Empowering families to take on a palliative caregiver role for patients with cancer in India: Persistent challenges and promising strategies. PLOS ONE. *17*(9), e0274770. https://doi.org/10.1371/journal.pone. 0274770
- Freeman, J. Q., Scott, A. W., & Akhiwu, T. O. (2024). Rural-urban disparities and trends in utilization of palliative care services among US patients with metastatic breast cancer. *The Journal of Rural Health: Official*

Journal of the American Rural Health Association and the National Rural Health Care Association, 40(4), 602–609.

https://doi.org/10.1111/jrh.12826

- Gomes, B., Higginson, I. J., Calanzani, N., Cohen, J., Deliens, L., Daveson, B. A., Bechinger-English, D., Bausewein, C., Ferreira, P. L., Toscani, F., Meñaca, A., Gysels, M., Ceulemans, L., Simon, S. T., Pasman, H. R. W., Albers, G., Hall, S., Murtagh, F. E. M., Haugen, D. F., ... PRISMA. (2012). Preferences for place of death if faced with advanced cancer: a population survey in England, Flanders, Germany, Italy, Portugal the Netherlands, and Spain. Annals of Oncology: Official Journal of the European Society for Medical Oncology, 23(8), 2006-2015.
  - https://doi.org/10.1093/annonc/mdr6 02
- Guo, J., Dai, Y., Gong, Y., Xu, X., & Chen, Y. (2023). Exploring the telehealth readiness and its related factors among palliative care specialist nurses: a cross-sectional study in China. *BMC Palliative Care*, 22(1). https://doi.org/10.1186/s12904-023-01209-1
- Gupta, M., Kankaria, A., Joshy, L. E., Singh, S., Lal, B., Choudhary, S., Marcus, S., Grewal, A., Goyal, L. D., & Kakkar, R. (2024). Community-based palliative care needs and barriers to access among cancer patients in rural north India: a Participatory action research. *BMC Palliative Care*, 23(1), 240.



Faculty of Nursing, University of Jember, Indonesia

https://doi.org/10.1186/s12904-024-01572-7

Knaul, F. M., Farmer, P. E., Krakauer, E. L., De Lima, L., Bhadelia, A., Jiang Kwete, X., Arreola-Ornelas, H., Gómez-Dantés, O., Rodriguez, N. M., Alleyne, G. A. O., Connor, S. R., Hunter, D. J., Lohman, D., Radbruch, L., del Rocío Sáenz Madrigal, M., Atun, R., Foley, K. M., Frenk, J., Jamison, D. T., ... Zimmerman, C. (2018). Alleviating the access abyss in palliative care and pain relief—an imperative of universal health coverage: the Lancet Commission report. The Lancet, 391(10128), 1391-1454. https://doi.org/10.1016/S0140-6736(17)32513-8

Martina, D., Geerse, O. P., Lin, C.-P., Kristanti, M. S., Bramer, W. M., Mori, M., Korfage, I. J., van der Heide, A., Rietjens, J. A., & van der Rijt, C. C. (2021). Asian patients' perspectives on advance planning: mixed-method Α systematic review and conceptual framework. Palliative Medicine, 1776-1792. *35*(10), https://doi.org/10.1177/02692163211 042530

Mitchell, S., Turner, N., Fryer, K., Aunger, J., Beng, J., Couchman, E., Leach, I., Bayly, J., Gardiner, C., Sleeman, K. E., & Evans, C. J. (2024). Integration of primary care and palliative care services to improve equality and equity at the end-of-life: Findings from realist stakeholder workshops. *Palliative Medicine*, *38*(8), 830–841.

https://doi.org/10.1177/02692163241 248962

Narvaez, R. A. (2024). Exploring the uses of digital health in palliative care in Southeast Asia. *International Journal of Palliative Nursing*, 30(7), 390–396. https://doi.org/10.12968/ijpn.2024.3 0.7.390

National Consensus Project for Quality
Palliative Care. (2018). Clinical
practice guidelines for quality
palliative care, 4th edition. National
Coalition for Hospice and Palliative
Care. https://www.
nationalcoalitionhpc.org/ncp.

Niu, J., Feng, M., Song, C., & Xie, H. (2025). Self-reported knowledge and difficulties towards palliative care among healthcare professionals in rural China: a cross-sectional study. *BMC Palliative Care*, 24(1). https://doi.org/10.1186/s12904-025-01674-w

Page, M. J., McKenzie, J. E., Bossuyt, P. M., Boutron, I., Hoffmann, T. C., Mulrow, C. D., Shamseer, L., Tetzlaff, J. M., Akl, E. A., Brennan, S. E., Chou, R., Glanville, J., Grimshaw, J. M., Hróbjartsson, A., Lalu, M. M., Li, T., Loder, E. W., Mayo-Wilson, E., McDonald, S., ... Moher, D. (2021). The PRISMA 2020 statement: an updated guideline for reporting systematic reviews. *BMJ*, n71. https://doi.org/10.1136/bmj.n71

Peeler, A., Afolabi, O., Adcock, M., Evans, C., Nkhoma, K., van Breevoort, D., Farrant, L., & Harding, R. (2024). Primary palliative care in low- and



Faculty of Nursing, University of Jember, Indonesia

middle-income countries: A systematic review and thematic synthesis of the evidence for models and outcomes. *Palliative Medicine*, 38(8), 776–789. https://doi.org/10.1177/02692163241 248324

Prajitha, K. C., Subbaraman, M. R., Siddharth Raman. S. R., Sharahudeen, A., Chandran, D., Sawyer, J., Kumar, S., & Anish, T. S. (2023). Need of community-based palliative care in rural India and factors influence that sustainability: a comprehensive exploration using qualitative methodology in rural Puducherry, India. Palliative Care and Social Practice, *17*. https://doi.org/10.1177/26323524231 196315

Qanungo, S., Calvo-Schimmel, A., McGue, S., Singh, P., Roy, R., Bhattacharjee, Panda, N., Kumar, Chowdhury, R., & Cartmell, K. B. (2021). Barriers, Facilitators and Recommended Strategies for Implementing Home-Based Palliative Care Intervention Kolkata, India. American Journal of Hospice and Palliative Medicine®, 38(6), 572-582. https://doi.org/10.1177/10499091209 69127

Rainsford, S., MacLeod, R. D., Glasgow, N. J., Phillips, C. B., Wiles, R. B., & Wilson, D. M. (2017). Rural end-of-life care from the experiences and perspectives of patients and family caregivers: A systematic literature review. *Palliative Medicine*, 31(10),

895–912. https://doi.org/10.1177/02692163166

Reville, B., & Foxwell, A. M. (2014). The global state of palliative care-progress and challenges in cancer care. *Annals of Palliative Medicine*, *3*(3), 129–138. https://doi.org/10.3978/j.issn.2224-5820.2014.07.03

Salikhanov, I., Katapodi, M. C., Kunirova, G., & Crape, B. L. (2023). Improving palliative care outcomes in remote and rural areas of LMICs through family caregivers: lessons from Kazakhstan. *Frontiers in Public Health*, 11. https://doi.org/10.3389/fpubh.2023.1 186107

Sánchez-Cárdenas, M. A., León-Delgado, M. X., Rodríguez-Campos, L. F., Correa-Morales, J. E., González-Salazar, L. V., Cañón Piñeros, Á. M., Fuentes-Bermúdez, G. P., & María Vargas-Escobar, L. (2023). Building an action plan to tackle palliative care inequality through multi-stakeholder platforms. *Palliative Care and Social Practice*, 17. https://doi.org/10.1177/26323524231 189520

Shi, Z., Du, M., Zhu, S., Lei, Y., Xu, Q., Li, W., Gu, W., Zhao, N., Chen, Y., Liu, W., Wang, H., & Jiang, Y. (2025). Factors influencing accessibility of palliative care: a systematic review and meta-analysis. *BMC Palliative Care*, 24(1), 80. https://doi.org/10.1186/s12904-025-01704-7



- Song, C., Feng, M., & Xie, H. (2025). Endof-life care in rural China: the crucial role and challenges of village doctors. *BMC Palliative Care*, 24(1). https://doi.org/10.1186/s12904-025-01755-w
- Stockton, D. A., Fowler, C., Debono, D., & Travaglia, J. (2021). World Health Organization building blocks in rural community health services: An integrative review. *Health Science Reports*, 4(2). https://doi.org/10.1002/hsr2.254
- Tegegne, M. D., Tilahun, B., Mamuye, A., Kerie, H., Nurhussien, F., Zemen, E., Mebratu, A., Sisay, G., Getachew, R., Gebeyehu, H., Seyoum, A., Tesfaye, S., & Yilma, T. M. (2023). Digital literacy level and associated factors among health professionals in a referral and teaching hospital: An implication for future digital health systems implementation. *Frontiers in Public Health*, 11. https://doi.org/10.3389/fpubh.2023.1 130894
- Wang, Y., Zhang, X., Huang, Y., & Ma, X. (2024). Palliative Care for Cancer Patients in Asia: Challenges and Countermeasures. *Oncology Reviews*, 17. https://doi.org/10.3389/or.2023.1186 6
- WHO. (2020, August 5). *Palliative care*. Https://Www.Who.Int/News-Room/Fact-Sheets/Detail/Palliative-Care.
- Wicaksono, R. B., Muhaimin, A., Willems, D. L., & Pols, J. (2025). Utilizing intricate care networks: An ethnography of patients and families

- navigating palliative care in a resource-limited setting. *Palliative Medicine*, *39*(1), 139–150. https://doi.org/10.1177/02692163241 287640
- World Health Organization (WHO). (2007). Everybody's business:

  Strengthening health systems to improve health outcomes. https://www.who.int/healthsystems/s trategy/everybodys business.pdf
- Yen, C. (2013). It is our destiny to die: The effects of mortality salience and culture-priming on fatalism and karma belief. *International Journal of Psychology*, 48(5), 818–828. https://doi.org/10.1080/00207594.20 12.678363