

BMF CP59: Examining the demanded healthcare information among family caregivers for catalyzing adaptation in female cancer

 *Ni Putu Wulan Purnama Sari*

Faculty of Nursing, Widya Mandala Surabaya Catholic University, East Java, Indonesia

<http://orcid.org/0000-0002-8869-9607>

December 18, 2023

“[...] under good care and continuing using the panacea, Kingfisher’s appetite for fish had returned. The birds brought tasty fat carp, and so he recovered quickly.”

– In: “No-Fish Dietary”; [The Kingfisher Story Collection](#) [1]

Introduction

The supportive care needs of partners and caregivers of cancer patients are categorized into four domains, namely:

- emotional and relational needs,
- practical needs,
- work and social needs, and
- healthcare and illness-related needs [2].

Among all aspects, the unmet needs of healthcare information from the healthcare and illness-related domains may affect the family caregiver’s (FCG) role in catalyzing adaptation

among female cancer patients from the emotional and relational needs domain.

The current study aims to examine how types of demanded healthcare information affect the FCG's role in catalyzing the adaptation of female cancer patients (i.e., cancer-specific information, caregiver-specific information, therapy-specific information, information on cancer physical needs, information on alternative therapies, and information on support services).

The Ethical Committee of the Faculty of Medicine, Widya Mandala Surabaya Catholic University, East Java, Indonesia, has reviewed this study protocol with an ethical clearance registered certificate of 080/WM12/KEPK/DOSEN/T/2020. The data collection procedure implemented ethical aspects of human subject protection, risk management, anonymity, confidentiality, beneficence, justice, and fidelity. Informed consent was given to all respondents before study participation.

Materials and method

The mindsponge theory was used in conceptual development and interpretation [3]. Bayesian Mindsponge Framework (BMF) analytics was used for statistical analysis on a dataset of 48 spouses (husbands) and 12 other family members (n = 60) in five congested communities of Surabaya, Indonesia [4]. The nursing team at Widya Mandala Surabaya Catholic University, East Java, Indonesia, collected and processed the dataset. The bayesvl R package, aided by the Markov chain Monte Carlo (MCMC) algorithm, was employed for statistical analyses [5]. For more information on BMF analytics, portal users can refer to the following book [6,7].

Findings

Among the six types of healthcare information, FCGs with a higher tendency to demand cancer-specific information are more likely to need support in catalyzing the adaptation of female cancer patients. Meanwhile, FCGs with a higher demand for information on alternative therapies are less likely to need support in catalyzing cancer adaptation. Other types of information have ambiguous effects on the need for support in cancer adaptation (see Figure 1).

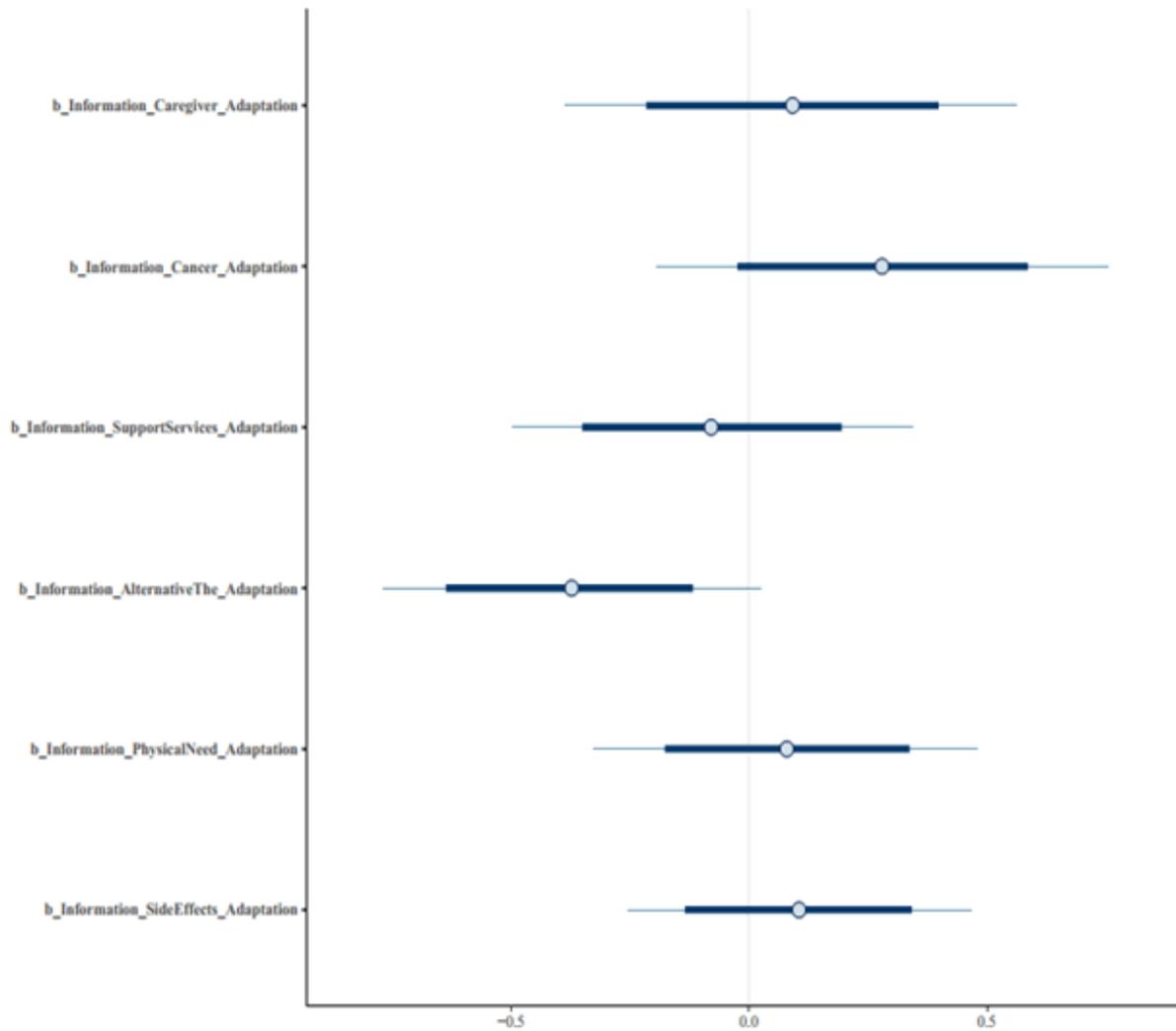


Figure 1. Coefficients' posterior distributions

Collaboration procedure

Portal users should follow these steps for registering to participate in this research project:

1. Create an account on the website (preferably using an institution email).
2. Provide your name, affiliation, and desired project role in the comment area below this post.
3. Patiently wait for the formal agreement on the project from the AISDL mentor.

If you have further inquiries, please contact us at aisdl_team@mindsponge.info

If you have been invited to join the project by an AISDL member, you are still encouraged to follow the above formal steps.

All the resources for conducting and writing the research manuscript will be distributed upon project participation.

Project coordinator: ***Ni Putu Wulan Purnama Sari***

AISDL mentor for this project: Minh-Hoang Nguyen

A Ph.D. candidate in Nursing Doctoral Degree of Faculty of Medicine, Universitas Sebelas Maret, Surakarta, Central Java, Indonesia, has joined this project: Made Mahaguna Putra.

The research project strictly adheres to scientific integrity standards, including authorship rights and obligations, without incurring an economic burden at participants' expenses.

References

[1] Vuong QH. (2022). *The Kingfisher Story Collection*. <https://www.amazon.com/dp/BOBG2NNHY6>

[2] Centre for Health Research and Psycho-oncology (CHeRP), The Cancer Council New South Wales, Australia. (2009). The Supportive Care Needs Survey – Partners and Caregivers. Retrieved from: https://www.researchgate.net/publication/312701763_SCNS-PC45-with_revised_new_items-2009_VERSION_FOR_ALL_NEW_STUDIES

[3] Vuong QH. (2023). *Mindsponge Theory*. De Gruyter.

[4] Sari NPWP. (2020). Study Report: Needs Analysis of Palliative Care Stakeholders in Community Setting: The Patients, Families, Professionals, and Volunteers. Surabaya, Indonesia: Faculty of Nursing, Widya Mandala Surabaya Catholic University.

[5] La VP, Vuong QH. (2019). bayesvl: Visually Learning the Graphical Structure of Bayesian Networks and Performing MCMC with 'Stan'. *The Comprehensive R Archive Network*. <https://cran.r-project.org/web/packages/bayesvl/index.html>

[6] Nguyen MH, et al. (2022). [Introduction to Bayesian Mindsponge Framework analytics: An innovative method for social and psychological research](#). *MethodsX*, 9, 101808.

[7] Vuong QH, Nguyen MH, La VP. (2022). [The mindsponge and BMF analytics for innovative thinking in social sciences and humanities](#). De Gruyter.



©2023 AISDL - Science Portal for the [SM3D Knowledge Management Theory](#)