

# 緩和ケアにおけるデジタルヘルス技術の 医療技術評価に関する予備的な検討

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## A preliminary review of Health Technology Assessment in palliative care utilizing Digital Health Technologies

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### Abstract

**Background** : In an aging society, improving access to palliative care and enhancing its quality are crucial challenges. Digital Health Technologies (DHTs) are expected to play a role in improving patient access to palliative care, enhancing the quality of care, and reducing care costs. However, the framework for Health Technology Assessment (HTA) of DHTs in palliative care has not been established. Moreover, there is a severe lack of evidence in economic evaluations for palliative care utilizing DHTs.

**Objective** : To provide preliminary review of the Assessment Framework for Digital Health Technologies (DHTs) and evidence on economic evaluation of palliative care utilizing DHTs.

**Methods** : Review of the evaluation framework for DHTs published by the Institute for Clinical and Economic Review (ICER) in September 2023, the evidence criteria framework by the National Institute for Health and Care Excellence (NICE), as well as published articles on economic evaluation of palliative care utilizing DHTs.

**Results and Conclusion** : ICER and NICE required developers of DHTs to submit evidence of technological context, clinical impact, and economic evaluation. The technical context encompasses the development history, positioning within standard care, privacy protection, and security measures. The evaluation of clinical impact includes assessment of effectiveness, safety, user experience, and impact on health disparities. Cost-effectiveness analysis or budget impact analysis is also required. Published articles indicate that evidence on economic evaluation of palliative care is decisively lacking, and a challenge lies in the comprehensive evaluation. The technological advancements in DHTs have outpaced the establishment of HTA frameworks, assessment of clinical efficacy, safety evaluation, and subsequent economic evaluations. Further research is required regarding the latest developments in evaluation guidelines for DHTs.

### Key words

Digital Health Technologies (DHTs), Health Technology Assessment (HTA), palliative care, health informatics

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