



How Technology-Assisted Nursing Improves Emotional Monitoring of Bedridden Dementia Patients

Shirley M. Nollado

College of Nursing, Western Mindanao State University, Zamboanga City 7000, Philippines

Corresponding email: smnollado20@gmail.com

Taking care for bedridden dementia patients is not just about bathing, feeding or giving them medication. An important part of their care is understanding the feelings of patients, many dementia patients have trouble speaking or expressing their emotions, nurses often have difficulty knowing if they are sad, scared or hurt, as they are not able to guess. This is where technology becomes very helpful.

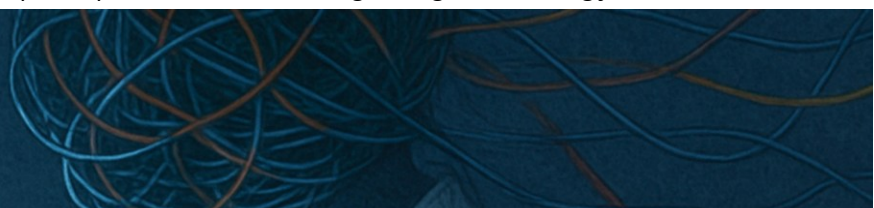
Technology-assisted nursing refers to the use of specialized tools and devices to help nurses care for patients better. For patients with dementia, some of these tools can track emotions and behaviors that are difficult for nurses to understand. For example, there are smart cameras and sensors that can easily read facial expressions, body movements, and even sleep patterns. This helps nurses understand whether a patient is feeling anxious, depressed, or uncomfortable, even if they can't put it into words. This allows nurses to know more quickly what the patient needs (Verdeflor RN, Dellosa RV, Ventures RR, et al., 2025).

One useful technology is wearable devices like smartwatches. These gadgets can track heart rate, breathing, and changes in skin temperature. If a patient's heart rate increases or their body temperature changes, it means they are in distress. Nurses can be alerted on their phones or computers and check on the patient immediately. Wearable technologies make it easier for caregivers to recognize or detect early signs of stress in dementia patients (Carpio LB, Caburnay ALS, Nollado SM, et al., 2024).

Another useful tool is emotion-tracking software. Some apps can analyze a patient's tone of voice or their facial expressions by looking at the camera. If a patient looks sad or frustrated, the system will immediately notify the nurse. This helps nurses respond quickly, even if the patient confused to ask for help. According to Hung et al. (2021), the use of emotion-aware systems leads to better and easier emotional care for dementia patients.

These technologies also help families of the patient feel more comfortable. With real-time updates and digital reports, family members can quickly know how their loved ones are doing, even when they are far away. Nurses can also share emotional patterns and changes with doctors or family members during care planning so that everyone is aware. According to Topo (2009), this type of communication builds trust and helps improve overall patient care.

However, technology does not replace human care, it only supports it. Nurses still need to feel, touch, talk, and listen with kindness. Technology simply provides them with more information or assistance quickly so that they can act with better timing and understanding. As Pappas et al. (2020) have noted, integrating technology with





traditional care helps to create a more comprehensive and compassionate approach to dementia care. Technology-assisted care is changing the way we care for patients with dementia. It helps nurses better monitor emotions, quickly identify problems early, and provide more personalized care. With these tools, even patients who struggle or cannot speak for themselves are no longer unheard.

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ARTICLE DETAILS

TT-0000008; Received: August 06, 2025; Accepted: August 08, 2025; Published: August 10, 2025

CITATION:

Nolledo, Shirley M. (2025). *How Technology-Assisted Nursing Improves Emotional Monitoring of Bedridden Dementia Patients: Essays and Reviews*. DOI: 10.64591/b7h8yb45

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