Factors involved in coping with the dilemma of using physical restraints on elderly people with dementia: perspectives from nurses who live with elderly relatives

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[Study objectives]
The present study aimed to clarify factors surrounding the dilemma of using physical restraints on elderly patients with dementia. In particular, we surveyed how nurses who live with elderly relatives coped with this issue.

[Methods]
Subjects: Perspectives on this dilemma differ by individual, and are affected by educational background, experiences both in nursing and in one’s own life, and by each individual’s value system1. Subjects were selected using the purposive selection method12) at community hospitals in mid-western Japan. Selection criteria for nurses required that they (1) contained an independent nursing division or department in the hospital under nursing management, 2) offered a postgraduate study or educational program for nurses, 3) provided similar employment conditions for all nurses who served as subjects for our study, and 4) served as a general hospital. Study objectives and methods were explained to individuals in charge of nursing at the 3 selected hospitals. We enrolled 269 nurses who worked in general wards of the 3 hospitals and who agreed to participate in the present study. Data collection and ethical considerations: The study was performed using an independently prepared questionnaire. Study participants were informed of the study objectives, methods of questionnaire distribution and recovery, and addresses of the investigators in one of the following ways: 1) we distributed request sheets disclosing this information, or 2) investigators explained this information to the individuals in charge of nursing at the hospital/ward at the time of the interview. Request sheets sent to individuals disclosed the definition of “physical restraint” and “elderly patients,” instructions on completing the questionnaire and the period of response, and the present study objectives. Investigator addresses were enclosed to help nurses better understand the study. The questionnaire was designed to ensure subject privacy. Specifically, interviewees were allowed to complete the form themselves and remain anonymous. The questionnaire was conducted so that, when completed, it could be inserted in an envelope distributed in advance to the subjects who could seal it themselves. Subjects were asked to return the sealed envelope to a designated place, roughly two weeks after distribution. Head nurses for the wards were asked to collect completed questionnaires in the sealed envelopes and return all of them together to those in charge of the study. This study was approved by the Ethics Committee of the Nursing Department of the Meiji University of Integrative Medicine.

[Results]
We developed a 16-item survey to assess dilemma coping factors. Coping with ethical dilemmas can be divided into the following three content areas: (i) positive cognition and actions (items 1-9); (ii) negative cognition and actions (items 12-16); and (iii) choosing not to act, or maintaining the status quo (items 10-11). Each of the survey questions was based on a four-point Likert scale, with higher scores indicating good coping strategies. When faced with the dilemma of physically restraining an older person with dementia, we assumed that nurses used one of the three coping methods. “Positive cognition and actions” would involve a nurse solving a dilemma in a positive manner, with the intent to resolve the problem (e.g., some nurses held conferences to consult with experienced senior nurses about the issue of restraining patients). “Negative cognition and actions” would involve nurses avoiding the dilemma (e.g., some nurses either refused to work with patients with dementia, or reminded themselves that the patient would leave soon and therefore did not give careful thought to the situation). “Choosing not to act, or maintaining the status quo” involved nurses accepting the present situation and doing nothing to resolve the problem (e.g., some nurses who felt inexperienced with regard to dementia care thought it best to follow the doctor’s instructions without questioning the situation). A preliminary test was conducted among 10 nurses working in orthopedic surgery wards at community hospitals, and the results from this test were used to improve the questionnaire. Data obtained from the modified questionnaire were analyzed in the present study. Validity and reliability of dilemma factors: Reliability of the constructed items within the dilemma was examined using a Cronbach’s \( \alpha \) coefficient of 0.6 or greater to test for internal consistency. Factor structure was confirmed following factor analysis (maximum likelihood method: promax rotation) for construct validity. Criteria for sample validity for the factor analysis targeted a KMO value of 0.6 or greater and a cumulative contribution ratio of 60% or more. Item exclusion was applied to a factor loading of 0.4 or greater without difficulty in interpretation.

[Conclusions]
We extracted deferent factors with regard to the dilemma faced by nurses concerning the physical restraint of elderly patients. We found that exposure or living with elderly relatives influenced nurses’ coping with this dilemma.

References
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