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

ra YAMAMOTO¹,Kiyoko TOKUNAGA²,Toki ONODERA², Kayoko HIRANO². Noriko ADACHI¹ 1. Tottori University,2.Kyoto Koka Women's University

(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.

Subjects: Perspectives on this dilemma differ by individual, and are affected by educational background, experiences both in nursing <mark>and in one's own life, and by e</mark>ach individual's value system11). Subjects were selected using the purposive selection method12) at community hospitals in mid-western Japan. Selection criteria for hospitals required that they 1) contained an independent nursing <mark>division or department in the h</mark>ospital 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 constructed so that, when completed, it could be inserted in an envelope distributed in advance to the subjects who could sea it themselves. Subjects were asked to return the completed questionnaire in 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. Extraction of dilemma coping items: We developed a 16-item survey to assess dilemma coping items. 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 to 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 α 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.

A d e q u a c y
The 16 dilemma cocoping factors a no
interpretation were do
of one or greate
coefficients for of
The same selection a n d dilemma i t e m coping factors g items were subjected to a factor analysis (maximum likelihood method: promax rotation) to clarify dilemma nong turses who live with elderly relatives. Items with either a factor loading of 0.4 or less or difficulty in deleted, and the final remaining 14 items were used for analysis. We extracted four items with a characteristic value which yielded a significant KMO value of 0.79 and a cumulative contribution ratio of 66.8%. Cronbach's lphacomposing items of each factor were 0.87, 0.83, 0.60, and 0.68 for factors 1, 2, 3, and 4, respectively. The same prelatives, wh e as described above was performed for the 16 dilemma coping items among nurses who did not live with elderly esulted in a total of 16 final items used in the analysis. Three items with a characteristic value of one or greater were extracted, rev ling a significant KMO value of 0.78 and a cumulative contribution ratio of 56.8%. Cronbach's lpha coefficients for items of each factor were 0.84, 0.85 and 0.79 for factors 1, 2, and 3, respectively. compos

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.

- 1. Akihiro Ogura; A method of restraint, Medical Friend's Nursing Science Dictionary, 4th Ed. Medical Friend Co., Ltd., Tokyo, 2059, 1997

- 1. Animo ogura, A metido di restraint, *medicar Friend's rutisting Science Dictionary*, 4th Ed. Medical Friend Co., Ltd., Tokyo, 2059, 1997

 2. Ujile S., Aso Y. *Shitaitekiyokusei* [Physical restraints], *Kango gijytu*[Nursing skills] 6th edition., IgakuShoin , Tokyo,2005;147–151. (in Japanese).

 3. Evans LK., Strumpf NE. Myths about elderly restraint. *Image: Journal of Nursing Scholarship*, 1989; 22:124–128.

 4. Hajime Hashimoto: Restraint of the Elderly, *Clinical Nursing* (Rinsho-Kango), 22:1381-1385, 1996.

 5. Abe T., Chiba Y. Kan-go generalba no jyoushiki wo minaosu sintaiyokusei [Re-examination of physical restraint customarily carried out in nursing practice]. *Evidenced Based Nursing* 2001; 1:49–65 (in Japanese).
- (in Japanese).

 Scherer YK., Janelli LM., Kanski GW., Neary MA., North NE. The nursing ethical dilemma of restraints. Journal of Gerontological Nursing 1991; 17:14–17.
- ichata Mitsuko: "Restraint 'amamoto M., Isumi K., U illi Tabk, Tamar Ben-Or Ham K., Principled thinki Crisham P. MORAL: how t is a dilemma of nurse, Consciousness of nurse to "restraint" not so as to feel guilty and my proposal to physical restraint, Expert Nurse, 13:24-27, 1997.

 Jsui K. Ethical dilemmas facing Japanese nurses regarding the physical restraint of elderly patients, Japan Journal of Nursing Science, 2006;3: 43-50. Or The nurse's challenge in coping with ethical dilemmas in occupational health. Nursing ethics, 1994; 1.4. inking: a comparison of nursing students and experienced nurses. Journal of Continuing Education in Nursing tow can I do what's right. Critical Care Management Edition Nursing Students.

- thinking: a comparison of nursing students and experienced nurses. Journal of Continuing Education in Nursing, 2004; 35:66–73.

 ; how can I do what's right. Critical Care Management Edition/Nursing U.S.A., 1993; 16: 42A–42N.

 [ameno toukeigaku deta no torikata ikashikata [Statistics for nurses A method for data collection and effective use of statistical data for nurses], Tokyo, Igaku-Shoin, 1984.
- 13. Barbara L. Tate, International Council of Nurses, Geneva, Switzerland: The Nurses dilemma—Ethical considerations in nursing practice, USA, 1977. ICN Ed. by Katsuko Kodama, translated by Yoko Oda; Japanese Nursing Association, Div. of Publishing, Tokyo, 1977.

 14. Michiyo Kojima, Conference of general and sub-general managers of National University Hospitals in the Western and Shikoku district of Japan: Mapping for management of dilemma of nurses—Communication with doctors for nursing focused on patients, Igaku-Shoin Ltd., Tokyo, 9, 1997.

Mail to: tokiwa27@hotmail.com