

Effect of multimodal comprehensive care methodology training on



both delirium and physical restraints in intensive care unit

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Background.

Delirium is common in in intensive care unit (ICU). A French care methodology, which consists multimodal comprehensive communication skills, has been widely implemented in hospitals and nursing homes in European countries for 40 years.

This methodology; *Humanitude*®, focuses on 4 elements of communication with patients; *gaze*, *talk*, *touch*, *and assistance of standing up*, and all the care are provided in one sequence with 5 structures; *1-notification*, *2-preparation*, *3-integration* of communication, *4-emotional* consolidation, *5-next* appointment.

Although this methodology was effective for elderly patients with delirium and Behavioral Psychological Symptom of Dementia in acute and long-term care settings, there is no previous study conducted in ICU.

Objectives.

Objectives: To assess the effectiveness of multimodal comprehensive care methodology training for nurses to prevent delirium in ICU.

Study design.

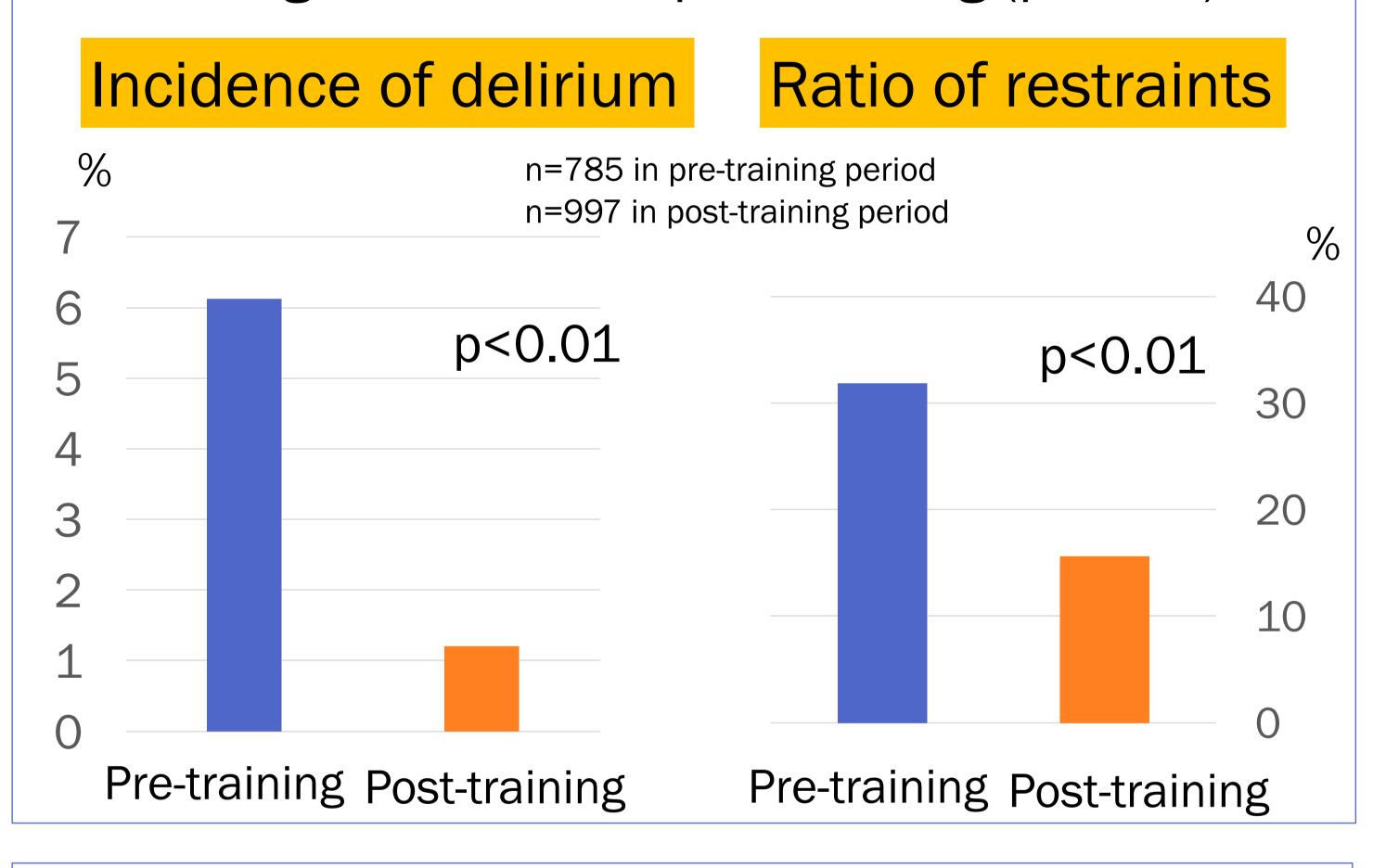
Single center, historical cohort study

Method.

- 1. A nurse received training of *Humanitude*® and certified as a trainer.
- 2. The nurse provided 3-hours lectures and bedside trainings to all the nursing staff in the ICU with 17 beds, the training was followed by daily individual consultations of challenging cases for 12 months.
- 3. All the patients who admitted to the ICU were evaluated for delirium by the diagnosis criteria of DSM-IV-TR. The incidences of delirium and physical restraints were compared between pre- and post-training.

Results.

- 30 nurses were enrolled the study.
- The training was held in August 2016. Research period was 12 months before (pre-training) and 12 months after (post-training) the training.
- The number of the patients who admitted to the ICU were 785 in pre-training period and 997 in post-training period.
- The incidence of delirium was 6.1% in pretraining and 1.2% in post-training (p<0.01).
- Use of physical restraint was 31.8% in pretraining and 15.8% in post-training (p<0.01).



Discussion.

Multimodal comprehensive care methodology training with daily bedside consultation by inhouse trainer was effective to reduce the incidence of delirium and physical restraints. The in-house trainer of the methodology is considered as the key role of the long-term effect to maintain the skill of the methodology.

Conclusion.

The training and bedside consultation by in-house trainer of *Humanitude*[®] reduced the incidence of delirium and use of physical restraints in ICU.

COI. There is no real or perceived, direct or indirect conflicts of interest that relate to this presentation.