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## Apply the importance-performance analysis to explore the creativity performance of assistive devices in junior college nursing students

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Patients receiving rehabilitation usually require assistive devices because of their functional disabilities. However, assistive devices were used in current clinical practices cannot satisfy the needs of the patients in daily life. Therefore, innovating and reforming assistive devices can improve the welfare of patients receiving rehabilitation. The purpose of this study was to explore nursing students' creativity performance to design innovative assistive devices after receiving the course of "Rehabilitation Nursing" in Junior Nursing College. Sixty-seven senior students who took the elective course of "Rehabilitation Nursing" were recruited. After nine weeks of educational intervention about the assistive devices innovation and group brainstorming, students made innovative products. The creativity questionnaire was used to evaluate how important students felt and how satisfied students response to their performance. The collecting data were analyzed by importance-performance analysis. Students generally acknowledged the relevance of assistive device innovation in clinical practice. The students' interests about assistive devices innovation were statistically higher before the course ( $p < 0.001$ ). The desire of creativity and the novelty of products made by students had extremely good performance. However, their actual innovation performance failed to meet the expectations in various dimension of creativity, especially in market awareness ( $p = 0.023$ ) and flexibility ( $p = 0.007$ ). The students' current innovative products remained limited to small conceptions and did not address market needs. The results of this study can serve as a reference for instructors in revising course curriculum to address the limitations that students face in innovation practices.

### Biography

Yu-Hsuan Chang is a Lecturer at the National Tainan Junior College of Nursing in Taiwan, and also be a Supervisor of Continuing Education Office. She is a PhD student at School of Nursing in National Taiwan University. Her current research interests are about caring for organ transplantation recipients and series of surveys about core competences for nursing students.

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