

## Abstract

**Background and purpose:** Chemotherapy is one of the foundational modalities of cancer treatment, however this modality is associated with a broad potential side effect profile. Oncology nurses play a vital role in managing the various debilitating side effects of cancer patients receiving chemotherapy. The purpose of this quality improvement project was to evaluate the impact of incorporating an evidence-based guideline for chemotherapy side effects management on oncology nurses' knowledge level and job satisfaction.

**Method:** This project utilized a 1-group pre and posttest design comparing oncology nurses' knowledge level and job satisfaction at baseline and after the intervention. The intervention was applying an evidence-based clinical guideline for chemotherapy side effect management. Pre- and post-intervention surveys were administered to assess the participants knowledge level and job satisfaction. The surveys were validated assessment tools. Post intervention, the rate of oncology nurses' documentation in patients' chart when using the clinical guided lines for chemotherapy side effect management was calculated.

**Results:** A total of 11 participants who met the inclusion criteria were recruited. One participant resigned during the project implementation phase and did not complete the posttest surveys. There was no significant improvement in oncology nurses' knowledge level or job satisfaction.

**Conclusion:** This intervention for applying evidence-based clinical guidelines for oncology nurses to manage chemotherapy side effects may be clinically significant and makes a meaningful difference in oncology nurses' knowledge level.

**Implications:** Future quality improvement projects might address how to integrate education and intervention efficiently into workflows, and how to evaluate patient outcomes and quality of life.

**Keywords:** Oncology nurses, chemotherapy side effects, evidence-based guidelines, Knowledge level, job satisfaction, documentation.