Introduction

The most common type of cancer in new patients at Wattanosoth Cancer Hospital over the past five years is breast cancer. Patients must be treated with standard multi-modality treatments, which take time to heal. Quality of life is one of the Key Performance Indicators (KPIs) that needs to be closely monitored to ensure the effectiveness of the care process.

However, we faced data entry and analysis issues that occurred from using conventional programs to calculate and transfer data from one location to another manually. The duplication of data entry was another issue that affected accuracy and reliability of data. The team then developed the BI program to address these issues.

Objective

To develop a program that can track data at the right time and can analyze data in a more advanced way in order to capture and provide information to enhance effective nursing practices.

Study method

Population in this study was the breast cancer patients who enrolled in the breast cancer clinical pathway program of Wattanosoth Hospital. Thirty seven met the inclusion criteria.

The data were collected by using the QoL (EORTC QLC-30 V 3 and BR-23) questionnaires from 2014 to 2016. Each patient was asked to complete the QoL questionnaires for 6 different times. Data were then analyzed according to the questionnaire reference.

After that, the team developed the BI program to monitor and evaluate the QoL indicators. It turned out that the BI could reduce the time spent on redundant data and helped us analyze data more deeply and provided us with more detailed information.

Lesson learned:

- The BI program developed by using existing resources is our challenge in the reduction of competency gaps among workforce.
- The BI program helps reduce duplication of work and monitoring and evaluating nursing process more quickly and efficiently.
- The BI program testing is supposed to end next year if the program is stable. We can start developing new applications from this BI program to further develop quality of nursing care.

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