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Effectiveness of web-based nursing continuing education on diabetic knowledge of nurses

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Objective: The purpose of this study was to assess the effectiveness of a web-based diabetes education project on diabetic knowledge of nurses from non-endocrinology departments.

Method: This research was conducted on 542 nurses from 10 hospitals. They were asked to register on the Johnson & Johnson Diabetes Institute and take the course called Specialized Training Program on Blood Glucose Management of Inpatients. The course consists of 4 major sections and 8 subsections. Nurses registered on the website and logged into the site to take courses according to their own time. Tests were used to measure diabetic knowledge before and after the intervention. Each pre- and post-test consists of 10 questions each worth 10 points. Descriptive statistics analyzed demographic data and t-test compared data before and after the intervention by SPSS.

Result: After the intervention, all the mean scores were above 80 points (out of 100). The pre-test mean score of blood glucose monitoring was 80.30 ± 20.47 which increased to 92.41 ± 9.75 in post-test ($t = -12.107$, $p < 0.001$). The pre-test mean score of Emergency Treatment for Hyperglycemia/Hypoglycemia Crisis was 93.86 ± 8.18 and increased to 96.37 ± 7.68 in post-test ($t = -14.776$, $p < 0.001$). For nursing of hypoglycemic agents, it increased to 89.19 ± 10.14 from 74.78 ± 17.37 ($t = -15.562$, $p < 0.001$). The last part mean score was 77.10 ± 17.54 and increased to 92.13 ± 7.81 ($t = -4.371$, $p < 0.001$).

Conclusion: Web-based diabetes education can increase diabetic knowledge of nurses from non-endocrinology departments and this might have a positive effect on nursing quality and clinical outcomes of patients.

Biography

Ping Ni has received her Bachelor's degree in Nursing in 2012. She is presently a Nursing Master's degree candidate in West China School of Medicine, Sichuan University. She has completed her one-year Internship in a grade A tertiary hospital and currently an Intern in West China Hospital, Sichuan University.

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