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Development and validation of evidence-based nursing care guideline in patients with diabetic foot ulcer

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Nurses have effective role in diabetic foot care and they should know the best evidence. In this way, clinical practice guidelines are useful tools based on the best evidence. The aim of this study was to develop and validate evidence-based nursing practice guideline in patients with Diabetic Foot Ulcer (DFU). Evidence-based nursing care guideline was developed based on 5 phases of Stetler model from March to December 2015. According to Stetler phases, relevant studies in last 5 years were searched in web of science, Medline, Scopus, Google Scholar and Persian databases. Evidence about nursing care in diabetic foot ulcer extracted and categorized based on nursing diagnosis and evidence levels and finally was designed as a guideline. Quality appraisal of guideline was evaluated with AGREEII tool by expert panel (n=10). AGREEII consists of 23 items, grouped in 6 domains: Scope and purpose, stakeholder involvement, rigor of development, clarity of presentation, applicability and editorial independence. Applicability of the guideline in clinical was assessed with checklist by nursing group (n=28) consists of head nurses and all nurses of endocrine and surgery units. Data analysis was carried out with SPSS v.18. Among 114 studies, evidence of 19 studies was selected and categorized based on 8 NDs. According to AGREEII, guideline had the highest score in scope and purpose (92.7%) and the lowest in applicability (76.2%) domains. Also, nurses reported the positive effect of implementation of guideline recommendations and lack of needed equipment for its implementation. Developed guideline got acceptable scores in all domains of AGREEII. Based on nurse's opinion, recommendations of developed guideline will have effective role in prevention, treatment, reduction of complication among diabetic foot patients. So, health policy-makers should consider the development, implementation and evaluation of nursing practice guidelines for improving quality of care and health promotion of diabetic patients.

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