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**EFEKTIVITAS EDUKASI MELALUI MEDIA KOMIK INTERAKTIF
TERHADAP PENGETAHUAN PASIEN DALAM PENCEGAHAN ULKUS
KAKI DIABETIK**

ABSTRAK

Latar belakang: Ulkus diabetikum merupakan salah satu komplikasi paling serius dari diabetes melitus yang dapat dicegah melalui edukasi yang tepat. Rendahnya pengetahuan pasien mengenai perawatan kaki diabetes menjadi faktor risiko utama terjadinya luka kaki. Media edukasi yang menarik, seperti komik interaktif, berpotensi meningkatkan pemahaman pasien secara lebih efektif. Tujuan: Mengetahui efektivitas edukasi melalui media komik interaktif terhadap pengetahuan pasien dalam pencegahan ulkus kaki diabetikum.

Metode: Penelitian ini menggunakan desain quasi experiment dengan pre-test-post-test with control group design. Sampel terdiri dari 50 pasien diabetes melitus tipe 2 tanpa ulkus aktif di RSUD dr. Jusuf S.K Tarakan, dipilih menggunakan teknik purposive sampling dan dibagi menjadi dua kelompok (25 kontrol, 25 intervensi). Intervensi edukasi diberikan melalui media komik interaktif selama 30 menit. Instrumen penelitian menggunakan *Diabetic Foot Care Knowledge Questionnaire*. Data dianalisis secara univariat dan bivariat dengan uji beda mean tidak berpasangan.

Hasil: Sebelum intervensi, mayoritas pengetahuan responden berada dalam kategori rendah (kontrol 60%, intervensi 80%). Setelah intervensi, kelompok kontrol meningkat ke kategori sedang (64%), sedangkan seluruh responden kelompok intervensi (100%) mencapai kategori tinggi. Hasil uji statistik menunjukkan perbedaan yang signifikan ($p = 0,000$).

Kesimpulan: Edukasi menggunakan media komik interaktif efektif meningkatkan pengetahuan pasien dalam pencegahan ulkus kaki diabetikum.

Kata kunci: edukasi, komik interaktif, ulkus diabetikum, pengetahuan, diabetes melitus

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**THE EFFECTIVENESS OF EDUCATION THROUGH INTERACTIVE
COMICS ON PATIENTS' KNOWLEDGE IN PREVENTING DIABETIC
FOOT ULCERS**

ABSTRACT

Background: Diabetic foot ulcers are among the most serious complications of diabetes mellitus, which can be prevented through proper education. Limited patient knowledge regarding diabetic foot care is a major risk factor for the development of foot ulcers. Engaging educational media, such as interactive comics, have the potential to enhance patient understanding more effectively. Objective: To determine the effectiveness of education using interactive comic media on patient knowledge in preventing diabetic foot ulcers.

Methods: This study employed a quasi-experimental design with a pre-test–post-test control group design. The sample consisted of 50 type 2 diabetes mellitus patients without active foot ulcers at Dr. Jusuf S.K Tarakan General Hospital, selected using purposive sampling and divided into two groups (25 control, 25 intervention). The educational intervention was delivered through interactive comic media for 30 minutes. The research instrument used was the *Diabetic Foot Care Knowledge Questionnaire*. Data were analyzed using univariate and bivariate methods with an independent mean difference test.

Results: Before the intervention, most respondents had low knowledge (control 60%, intervention 80%). After the intervention, the control group improved to a moderate knowledge level (64%), while all respondents in the intervention group (100%) reached a high level of knowledge. Statistical analysis showed a significant difference ($p = 0.000$).

Conclusion: Education using interactive comic media is effective in improving patient knowledge for the prevention of diabetic foot ulcers.

Keywords: education, interactive comics, diabetic foot ulcers, knowledge, diabetes mellitus