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Is Diabetic Foot Ulcer Healing Enough? Factors to Consider Improving the Healend Related Quality of Life of People with Diabetic Foot Ulcers

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Abstract

a deteriorating he lth-related quality of life. A Patients with diabetes mellitus and Diabetic Foot Ulcer (DFU) had sh outpatients with DFU using the Diabetic recent study has investigated the health related quality of life of S ould try to ork on the emotional state of Foot Ulcer Scale-Short Form (DFS-SF). This study shows that clinician patients with DFU. Patients with DFU often experie emotional unce at when the ulcer will heal and that clinicians have to devote more attention to this whether new lesions will appear on their feet, and it domain. International Working Group on the Diabeta Foo DE) provides comprehensive guidelines that highlight the importance of a multidisciplinary team, me and the role of psychology in managing diabetic foot ulcers.

Keywords: Diabetic foot; Diabetic foot Ulcer Scale—Short Form (DFS-SF); Health-related quality of life; Spain

Description

Patients with Diabetes Mellin (DM) and (Downhave a deteriorating Health Related Quant of Life (HRQ) [1,2]. Additionally, DFU has been deconstrate whave the great st negative impact on HRQOL compared to other contemps, such as ulcers that have healed amputation diabetic retinopathy, a stage renal disease, and coronary disease A recent tudy has investige ed the health-related quality of life of Schaish outparents with DFU using the Diabetic Foot Ulcer Scale—Short F. (DF -SF) [3-6].

29 items ased on 6 subscales: Leisure, This instrument conta dail life, negative emotions, "worried physic nd depende ulcers/fe ulcer care." Each item is rated on a abo and bothered be scale ranging from 1 ("not at all or none of the likertthe time, or extremely"). Individual items ment were reverse coded, and high scores on the DFS-SF on the in (good) HRQOL. The score of each subscale was indicate a a scale of 0 (poorer HRQOL) to 100 (higher calculated bas HRQOL). The post important finding of this cross sectional study that included 141 patients with DFU was that the domain of "worried about ulcers" had the lowest score in the study population, suggesting that clinicians should try to work on the emotional state of patients with DFU. Patients with DFU often experience emotional uncertainty about when the ulcer will heal and whether new lesions will appear on their feet, and it may be that clinicians have to devote more attention to this domain. In a study by Al Ayed et al., the emotional health of patients was affected by dyslipidaemia according to the Arabic version of the 36-item Short-Form (SF-36) survey [7]. In this study dyslipidaemia was associated with lower scores in the domains of "worried about

ulcers" and "bothered by ulcer care", highlighting the importance of managing comorbidities for these patients [6]. In this sense, it was also found that elevated Body Mass Index (BMI) had a negative correlation with the HRQOL scores regarding the items of "worried about ulcers" and "bothered by ulcer care" [6]. It is well known that obesity is a common problem among patients with DM and DFU, especially regarding lower mental component scores [1,7]. Moreover, previous studies have found that diabetic foot is associated with severely impaired HRQOL in both physical and mental health aspects [2,8,9]. In this regard, this study found that patients with ischemic DFU had significantly lower scores in the physical health domain [6].

On the other hand, the mean duration of diabetic foot was the most influential factor related to worse scores in most of the domains of DFS-SF, followed by previous amputations. Valensi et al., Confirmed that a longer duration of the DFU may be related to the duration of the care process and is associated with a worse HRQOL with regard to physical health, side effects, treatment, and financial burden according the original form of the DFS [10].

The SINBAD DFU score had significant negative correlations with leisure, physical health, dependence/daily life, and the "bothered by ulcer care" domain, suggesting that HRQOL may be related to the severity of DFU in this study population [6]. Valensi et al., used the DFS survey with French subjects who had DFU and confirmed that a more severe Wagner grade correlated with poorer HRQOL [10]. Similar results have also been found in the study by Kontodimopoulos et al., where lower scores of the 6 domains of the DFS-SF correlated with higher scores on the University of Texas wound classification system for DFUS [11].

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In this study it was also found that previous amputation events were the second most influential factor related to worse scores in more domains. Patients with previous amputation showed significant differences in five of the six analysed domains: Leisure, dependence / daily life, negative emotions, "worried about ulcers/feet," and "bothered by ulcer care." Moreover, the domains leisure (OR 0.98, 95% CI 0.97-0.99) and worried about ulcers/feet (OR 0.98, 95% CI 0.96-0.99) were identified as significant independent domains in patients with the experience of a previous minor amputation [6]. Al Ayer et al., demonstrated a particular impact on emotional health measured by the Arabic version of the SF-36 survey in relation to prior amputations [7]. Similarly, Perrin et al., reported higher mean scores of bodily pains among patients with a history of amputation compared to those without such a history using the same questionnaire [9]. Finally, this study showed that patients with a higher le education had significantly higher scores in the domains of "wo about ulcers" and physical health. In the same way, Yekta et showed a relationship between low educational level and differen in the physical component of patients with DE pared to the without DFU according to SF-36 [1]. Other studies relation between damage in social standing of education p reported l level [7]. In conclusion based on the results of this studnicia work on the emotional state of pati (GDF) provides International Working Group on the Diabetic Food comprehensive guidelines the ighlight the in ıtal multidisciplinary team, m ne role of h support, and psychology in managing de petic foo ers. It is recommended that healthcare providers al distress and provide en for psycho. nd support groups, to appropriate interversions, including counsely e emotional burden of their condition, help patients c e with the manage stres ere to t an ent clans, and make lifestyle changes necessary for ulce tion and m agement [12].

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Declara of interest

There are to relevant conflicts of interest to disclose.

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