Buy eBook

EUR 64.19

Buy paper (PDF)

EUR 30.69

Readable on all devices

Local sales tax included

Learn about institutional

Instant download

Own it forever

if applicable

subscriptions

Cite paper

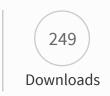
Log in to check access

What Technologies Can the Nurse Use to Increase the Quality of Life of the Elderly Population with Leg Ulcers? – Systematic Literature Review

Authors Authors and affiliations

Ana Ripado 🔀 , Ruben Pires, Rita Morais, Pedro Parreira, César Fonseca, Manuel Lopes, Céu Marques

Conference paper First Online: 14 April 2019



Part of the Communications in Computer and Information Science book series (CCIS, volume 1016)

Abstract

The purpose of this study was to identify the new technologies that nurses could use to increase the quality of life on an elderly person with leg ulcer. Methods: it was made a systematic revision of literature with qualitative synthesis and meta-analysis. Results: Elderly persons with chronic leg ulcers frequently experience multiple disabling symptoms and these symptoms are highly related with impairment of quality of life. Nowadays, the technology is prepared to improve diagnosis and treatment of illness. For the leg ulcer, one of the newest technologies is electrical stimulation on skin with two types: electrical stimulation therapy and electroceutical treatment. These therapies consist on the application of microcurrents of electric energy to replace the current of injury which has become disrupted in chronic wounds. The therapy reduces the wound size, pain and exudate levels. Conclusion: With this recent investigation and with the enforcement of new technologies in association with the usual therapies it is possible to improve the quality of life of the patient, however, it is extremely important to continue the investigation on this area.

Keywords

Leg ulcer Quality of life Technology

This is a preview of subscription content, <u>log in</u> to check access.

References

1. Furtado, K.: Úlceras de perna – Tratamento baseado na evidência. Nursing (176), 35–42 (2015)

Google Scholar

- 2. Saraiva, D., Bandarra, A., Agostinho, E., Pereira, N., Lopes, T.: Qualidade de vida do utente com úlcera venosa crónica. Referência (10), 109-118 (2013) Google Scholar
- 3. Alves, D., Nunes, I., Marques, M., Novas, M.: Qualidade de vida na pessoa com úlcera de perna, revisão integrativa. RIASE **2**(1), 454–467 (2016) CrossRef Google Scholar
- Prática Assitencial. Revista Brasileira de Inovação Tecnológica em Saúde 2(4), 29-37 (2013) Google Scholar 5. Cruz, M., Baudried, T., Azevedo, F.: Causas infrequentes de úlceras de perna e a sua

4. Pereira, C., Pinto, D., Tourinho, F., Santos, V.: Tecnologias em Enfermagem e o Impacto na

- abordagem. Revista da SPDV 69(3), 383-394 (2011) Google Scholar 6. Lorenzetti, J., Trindade, L., Pires, D., Ramos, F.: Tecnologia, inovação tecnológica e saúde;
- uma reflexão necessária. Texto Contexto Enfermagem 21(2), 432-439 (2012) CrossRef Google Scholar 7. PORDATA Base de Dados Portugal Contemporâneo.
- total+e+por+sexo-1260. Accessed 08 Oct 2018 8. Melnyk, B., Fineout-Overholt, E., Stetler, C., Allan, J.: Outcomes and implementation strategies from the first U.S. evidence-based practice leadership summit. Worldviews Evid.

https://www.pordata.pt/Europa/Esperan%C3%A7a+de+vida+%C3%A0+nascen%C3%A7a+

CrossRef Google Scholar 9. Finlayson, K., et al.: Distinct wound healing and quality-of-life outcomes in subgroups os

Based Nurs. 2(3), 113-121 (2005)

- patients with venous leg ulcers with different symptom cluster experiences. J. Pain Symptom Manage. 53(5), 871-879 (2017) CrossRef Google Scholar
- quality of life in adults with chronic mixed venous and arterial leg ulcers. Int. Wound J. **13**(5), 903–911 (2016) CrossRef Google Scholar

10. Do, H., Edwards, H., Finlayson, K.: Identifying relationships between symptom clusters and

11. Edwards, H., Finlayson, K., Skerman, H., Alexander, K., Miaskowski, C., Aouizerat, B., Gibb, M.: Identification of symptom clusters in patients with chronic venous leg ulcers. J. Pain

- Symptom Manage. **47**(5), 867–875 (2014) CrossRef Google Scholar 12. Ovens, L.: Electrical stimulation therapy and electroceutical treatment for management of
- CrossRef Google Scholar 13. Hopman, W., VanDenKerkhof, E., Kuhnke, J., Harrison, M.: Factors associated with healthrelated quality of life in chronic leg ulceration. Qual. Life Res. 23(6), 1833–1840 (2014)

venous leg ulcers. Br. J. Commun. Nurs. 22, S28-S36 (2017)

- CrossRef Google Scholar 14. Turner, N., Ovens, L.: The results of a clinical evaluation of Accel-Heal electroceutical treatment in a large NHS Trust. Wounds UK 13(4), 92-99 (2017)
- Google Scholar 15. Finlayson, K., Courtney, M., Gibb, M., O'Brien, J., Parker, C., Edwards, H.: The effectiveness of a four-layer compression bandage system in comparison with Class 3 compression hosiery on healing and quality of life in patients with venous leg ulcers: a randomized controlled

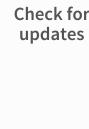
CrossRef Google Scholar

trial. Int. Wound J. 11(1), 21–27 (2014)

© Springer Nature Switzerland AG 2019

Copyright information

About this paper



Elderly Population with Leg Ulcers? – Systematic Literature Review. In: García-Alonso J., Fonseca C. (eds) Gerontechnology. IWoG 2018. Communications in Computer and Information Science, vol 1016.

Cite this paper as:

Springer, Cham First Online DOI **Publisher Name** 14 April 2019 https://doi.org/10.1007/978-3-Springer, Cham

Ripado A. et al. (2019) What Technologies Can the Nurse Use to Increase the Quality of Life of the

Online ISBN **Print ISBN** eBook Packages 978-3-030-16027-2 978-3-030-16028-9 **Computer Science**

030-16028-9_6

<u>site</u> **Reprints and Permissions**

Buy this book on publisher's

Academic Edition ▼

Over 10 million scientific documents at your fingertips