E-Poster

EP-504

Healthcare Professional Satisfaction: A Comparison Between Different Exoskeletons

Topic: Robotics

Daniel Rozenkwit[1], Marina Fernandes Ribeiro[2], Daniela Mitiyo Odagiri Utiyama[2], Priscila Fabiano Carvalho[2], Erica de Castro Leite[2], Cristiane Gonçalves da Mota[2], Andre Tadeu Sugawara[2], Linamara Rizzo Battistella[3]

[1]*Faculdade de Medicina, Universidade de Sao Paulo (FMUSP), Sao Paulo, Brazil*

[2]*Instituto de Medicina Fisica e Reabilitacao, Hospital das Clinicas da Faculdade de Medicina da Universidade de Sao Paulo (HCFMUSP), Sao Paulo, Brazil*

[3]*Medicina Legal, Bioetica, Medicina do Trabalho e Medicina Fisica e Reabilitacao, Faculdade de Medicina, Universidade de Sao Paulo, Sao Paulo, Brazil*

BACKGROUND

Recently, the use of robotic devices, such as exoskeletons, on the rehabilitation of patients with severe impairments is steadily increasing, which also involves major changes to the professional's work routine. However, despite the importance of user feedback on the development of these new technologies, research on this topic remains scarce and mostly focuses on the patient's perspective. The purpose of this study was to compare the satisfaction of health-care professionals with three different exoskeletons. An exploratory, cross-sectional observational study of 15 health-care professionals working at a rehabilitation center was conducted using the System Usability Scale (SUS) questionnaire in June 2024. Data was coded and analyzed using thematic analysis to correlate the SUS value to the professional's demographic data and to compare their satisfaction with each device. The results suggest that the professionals are more satisfied with wearable technology (i.e. Atalante exoskeleton) than they are with the grounded ones (i.e. Lokomat exoskeleton), mostly due to the ease of handling and useful features.

CONCLUSION

To sum up, the exoskeleton in rehabilitation scenarios is easier to operate and to fit patients than other treadmill-based robotic therapies.

Statement of Disclosures

None

Doi: 10.5606/archisprm.2026.EP-504

Corresponding Author:
Daniel Rozenkwit
Faculdade de Medicina, Universidade de Sao Paulo (FMUSP), Sao Paulo, Brazil
Email: daniel.rozenkwit@fm.usp.br