



Research Brief

Mediating Effects of Pain Interference on the Relationships Between Pain Intensity and Probable Major Depression Among Participants With Spinal Cord Injury

Introduction

Pain and depression are 2 highly prevalent secondary health conditions among those with spinal cord injury (SCI). Our purpose was to test whether pain interference (affected the daily living the participants' life mediates the relationship of pain intensity and depression among individuals with SCI.

Key Findings

- Over 50% of the group had a history of substance abuse, and 94% reported moderate or severe pain.
- There was a significant interaction between the history of substance abuse and pain severity.
- A difference in functional improvement was found among individuals who reported low pain; those
 with a history of substance abuse achieved less functional improvement than those without a history
 of substance abuse.
- For participants without a history of substance abuse, the amount of functional improvement decreased as pain severity increased.
- Participants with a history of substance abuse; the amount of functional improvement tended to increase as pain severity increased. It is possible that individuals with a history of substance abuse received more pain medication, which may explain the unexpected finding.

Conclusion

A history of substance abuse and post-injury pain are widespread among individuals with SCI in rehabilitation, and there may be a meaningful relationship between these two patient characteristics and functional improvement. The results provide potential new insights into the characteristics of vulnerable subpopulations during SCI rehabilitation. Furthering our understanding of these results will need future investigation to prevent and minimize poor outcomes among vulnerable SCI patients.

