

Building an Ethics Foundation for Future Spinal Cord Injury Clinical Trials

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OBJECTIVE

MENDTHEGAP

To examine the landscape of participation criteria for spinal cord injury (SCI) clinical trials registered on ClinicalTrials.gov.

BACKGROUND

- There are 250,000 500,000 SCI cases worldwide each year.¹
- The incidence of depression and anxiety can be as high as 40%, and 20% for substance use in people with lived experience (PWLE) of SCI.²
- Numerous interventions biologicals, devices, drugs, rehabilitation, or a procedural, combination - have improved quality of life but none have provided a solution.
- Potential trial participants rely on public database, the ClinicalTrials.gov, for information on novel interventions and ongoing clinical trials.

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METHODS

- ClinicalTrials.gov mined for SCI clinical trials registered up to December 2022 using the search term "spinal cord injury" and variants.
- Inclusion and exclusion criteria manually populated for each trial and coded using thematic analysis.
- Criteria cross-coded with geographical region and intervention type.

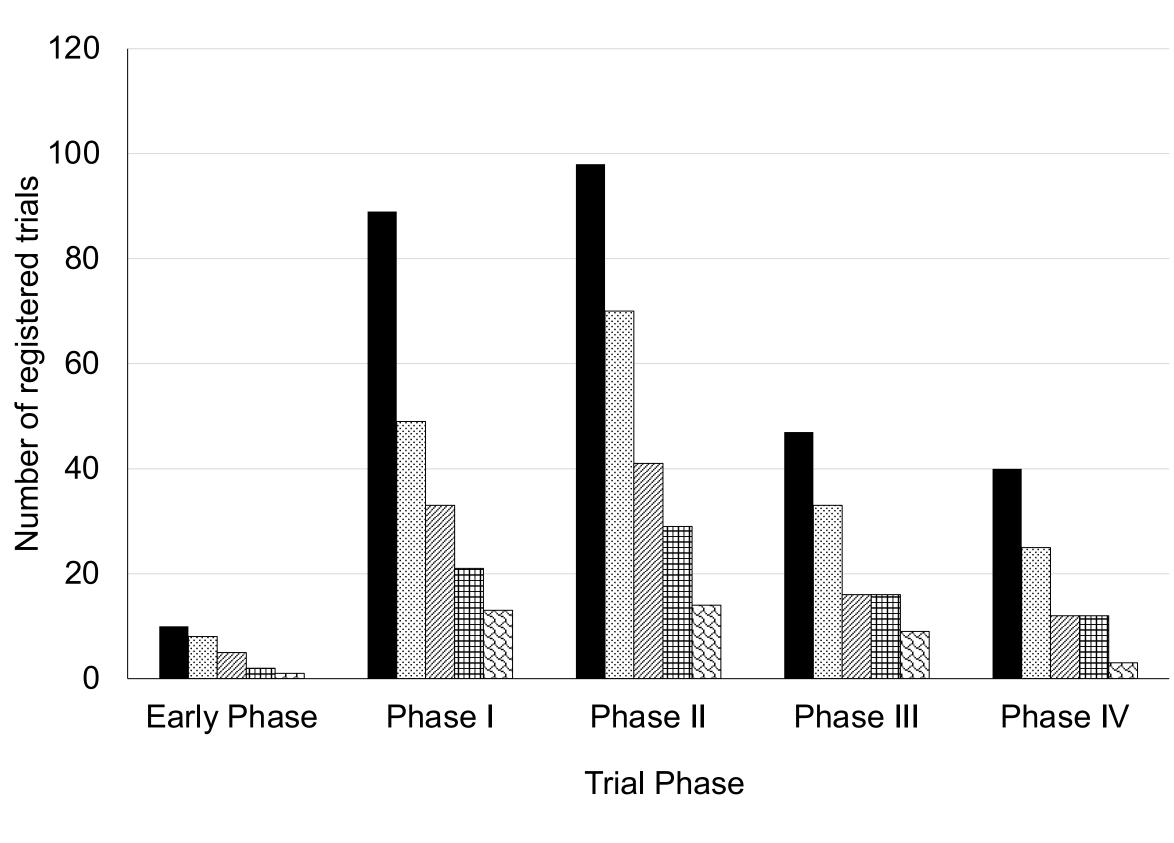


Figure 1: Distribution of exclusion criteria across trial phases. Solid black bars - total number of trials assessed for the identified phase. Dotted bars - number of trials that exclude participants on the basis of reproductive potential. Black slanted line bars - exclusion for mental illness. Hatched bars - exclusion for substance use. Black fish-scaled bars exclusion at the investigator's discretion.

intervention

region



DISCUSSION

- Inconsistent phase designation and intervention categorization challenge usability of the database.
- Fewer than 15% benchmarked criteria for mental illness and substance use to clinical assessments. This is both a serious scientific and ethical concern, and pose a challenge to powering trials from a limited participant pool.
- Leaving undefined criteria to the investigator's discretion transparency and leaves room for biases.
- Drug trials overall and conducted in Europe were more likely to exclude participants on the basis of reproductive potential, mental illness, substance use, and at the investigator's discretion.
- Review of participation criteria for future SCI trials is needed to meet the goals of both ethical and scientific rigor.

REFERENCES

- I. World Health Organization (2013, November 19) Spinal cord injury. Accessed July 31, 2023.
- 2. Management of Mental Health Disorders, Substance Use Disorders, and Suicide in Adults with Spinal Cord Injury. J Spinal Cord Med 44, 102-162

RELATED PUBLICATIONS

- 1. Barretto T., Tetzlaff W., Illes J. Ethics and accountability for clinical trials. Nature - Spinal Cord 2024 (Published 18 March 2024).
- 2. Barretto T., Manohara V., Illes J. An examination of exclusion criteria in spinal cord injury clinical trials (in preparation).