Exploring motivation in (subacute) upper limb rehabilitation among patients with Cervical Spinal Cord Injury: a qualitative study towards enhanced functional recovery

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Introduction: A cervical spinal cord injury (C-SCI) significantly impacts self-care and daily activities due to impaired hand function. While therapy dosages and training What are the experiences of individuals with content are essential, motivation is a critical yet under-explored factor in a cervical spinal cord injury regarding enhancing motor learning and recovery.

Method: A phenomenological-hermeneutical qualitative research design, recruiting 10 people with C-SCI from rehabilitation centres in Belgium (n=2) and the Netherlands (n=1) within the subacute phase (4 weeks after injury). Semistructured interviews were conducted using an interview guide.

Results: Motivation was experienced as a process influenced by 3 key aspects.

Question?

motivation for arm-hand training during the subacute rehabilitation phase?

Sex	Age (median)	Lesion level	AIS
7 male 3 female	55 (21-79)	C1-C6	B-D

Importance of motivation

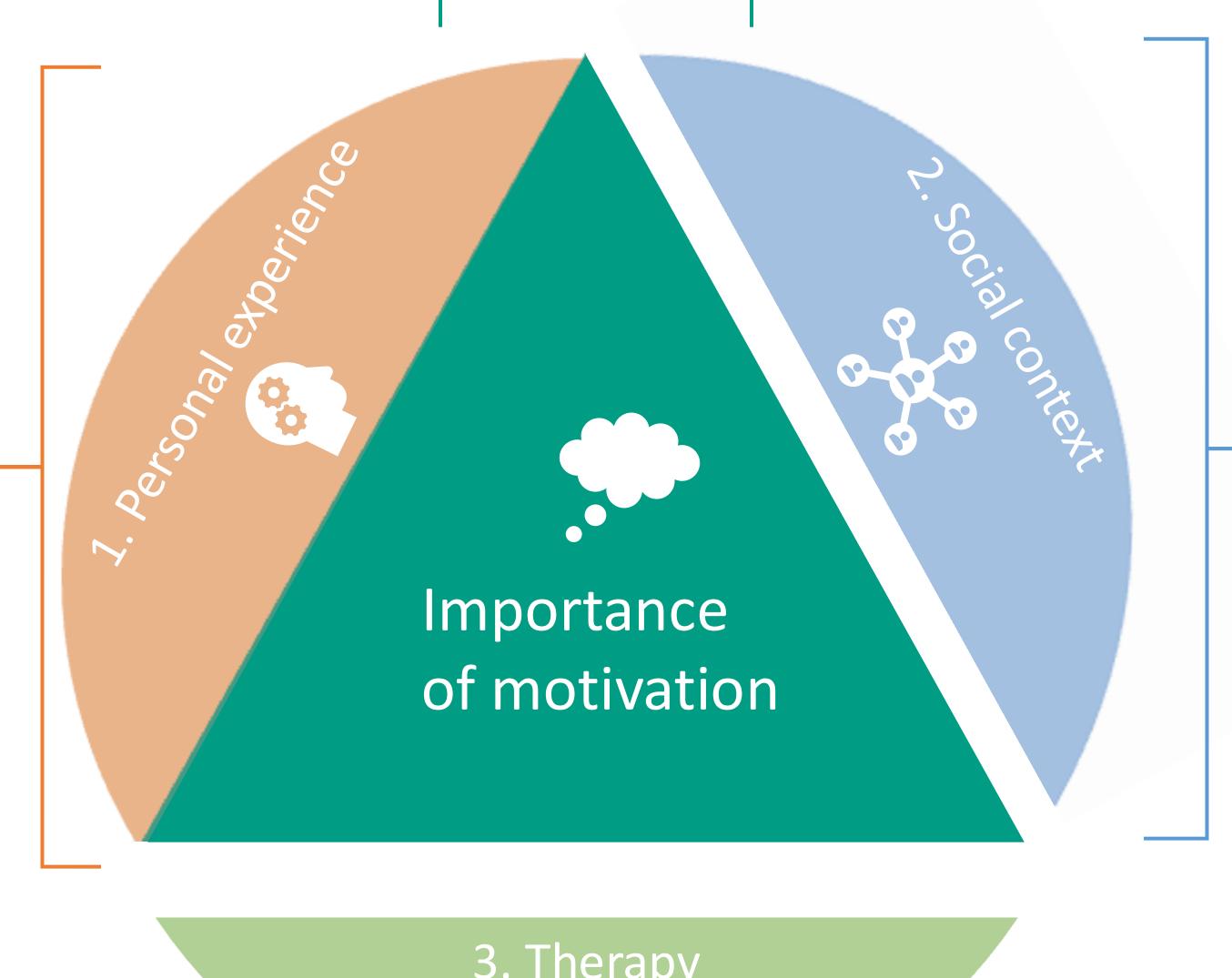
- Motivated individuals progress more
- Step-by-step process
- Varies among individuals

"That is the 10 for me. So be 100% motivated, otherwise you really won't get there." - C-SCI 1

1. Personal Experience

- Progress boosted motivation
- Setbacks reduced motivation
 - Improvements encouraged patients, even if progress slowed
 - Setbacks initially caused hopelessness but later provided strength
- Goal-setting was highly motivating, both general and specific, short- and long-term

"I still try to set the bar high for myself, about the goal. Always being able to do something more." - C-SCI 4



3. Therapy

2. Social context

- Rehabilitation team
 - Builds strong relationships
 - Understands patients
 - Explains usefulness of exercises
 - Provides feedback
- Fellow patients
 - Offer mutual support
 - Share experiences
- Personal network
 - Shows support
 - Maintains a positive attitude
 - Their motivation influences the patient

"It is support and also, they always come to visit so unexpectedly and that gives the you feeling that they have not forgotten you." – C-SCI 3

3. Therapy

- Understanding the usefulness of exercises enhances motivation
- Incorporating variety that matches personal interests boosts motivation
- Many with C-SCI prefer:
 - Heavier exercises
 - Less rest between sessions

"Yes, basically I don't care what I have to do. If only, if only you can convince me that there is a point in me doing it. Because if I don't see the point of it, then my motivation to do it is also low." -C-SCI 1

Motivation is mainly internal, shaped by personal experiences training can additional impact motivation.

Answer

and, to a lesser extent, social context. Social context include the rehabilitation team, fellow patients, and personal networks. Additionally, therapy content, dosage, and intensity in arm-hand





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Recommendations:

- 1. Build a strong therapeutic relationship to facilitate open communication and understanding, making it easier to assess the patient's challenge level.
- 2. Ensure patients understand the reasons behind their exercises by clearly explaining their importance.
- 3. Focus on the three motivational elements for armhand training.

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