



Brain injury rehabilitation – a health technology assesment Britta Bjerrum Mortensen, National Board of Health, DACEHTA

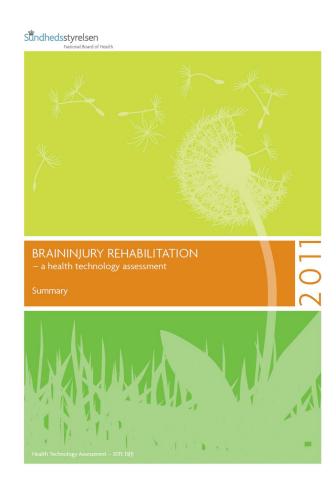


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Outline

- 1. Objectives
- 2. Background
- 3. Five hypotheses





Background

- The acute treatment of acquired brain injury in focus for many years - good results
- More people survive with, or at risk of having complex negative health effects after acquired brain injury
- Stroke and traumatic brain injury are the main reasons of acquired brain injury
 - 12.500 cases of hospitalisation from stroke in 2009
 - 9.500 cases of hospitalization from traumatic brain injury and other forms
 - 4.500 8.500 of these needs brain injury rehabilitation
- People with acquired brain injury are a heterogeneous group, with diverse problems and rehabilitation needs
- Brain injury rehabilitation includes programmes with numerous services targeting the disease and injury, as well as the person's life situation



Objective

To provide:

- A systematic, critical and comprehensive health technology assessment
- For professional advise on how brain injury rehabilitation in Denmark can be organised across municipalities, administrative regions and the state and across professions (multidisciplinary)
- Such that the rehabilitation services are targeted appropriately, of uniform high quality and coherent for the people involved



Methods

- Systematic literature search from 2000 2010
- Supplemented with register data and focus group interviews



Background for the five hypoteses

- Heterogeneous needs vs. huge variety of interventions
- How can these two levels be combined?
- White Book on Physical and Rehabilitating Medicine in Europe 2006 – White book – Denmark 2004
- Principles of Physical and Rehabilitation Medicine:
 - WHO's Bio-Psycho-Social Model of Disability International Classification of Functioning Disability and Health (ICF)
 - Client-centred
 - Learning strategies
 - Working with goals
 - Transfer of knowledge and skills
 - Multi-professional teamwork



Methods

- All multidisciplinary interventions effects (22)
- Qualitative literature review
- 30 development projects evaluated



Five hypoteses - questions

- What knowledge and theoretical approaches underlie the five hypotheses on the factors the promote positive results in brain injury rehabilitation?
- How are these hypotheses described and put into practise in the multidisciplinary interventions?



Results: client-centered

- Client-centred approaches have been increasingly incorporated into brain injury rehabilitation in various ways. No agreement on how to define a client-centred approach. Different meanings are attributed
- It is not clear whether client-centred approaches refer to the genuine incorporation of user perspectives (object – subject)
- A multidisciplinary intervention produced moderate evidence indicating that multidisciplinary teamwork strongly allied with the person with acquired brain injury has several positive effects
- Qualitative research shows that client-centred approaches that incorporate the perspective of people with acquired brain injury promote positive results, increase the motivation and experience of control.



Results: goal setting

- Described relatively thoroughly
- Two reviews (multidisciplinary intervention) found strong evidence - working with goalsetting promotes the achievement of and maintenance of goals
- For people with cognitive problems goal setting can provide structure and maintain attention (qualitative research)



Results: strategies for learning

- A multidisciplinary intervention showed documented positive results of using specific strategies for learning
- The review underpins that it is not arbitrary what learning strategies are used



Results: strategies for transferring knowledge and skills

- The hypotheses on the extent of knowledge and skills attained by a person in one setting such as a hospital, are useful in other settings
- This assumption is to a lesser degree assessed in the multidisciplinary intervention



Results: Importance of multidisciplinary teamwork

- Multidisciplinary interventions have been shown to produce positive effects
 - Three identified principles:
 - Specifying the target group
 - 2. Individualised
 - In some interventions, the intervention comprises special ideas of theories, such as in holistic neuropsychological interventions
- Multidisciplinary teamwork is generally assumed to be a prerequisite for achieving positive results, but the content and nature of the teamwork are seldom defined and evaluated

types of collaboration: working together closely or parallel



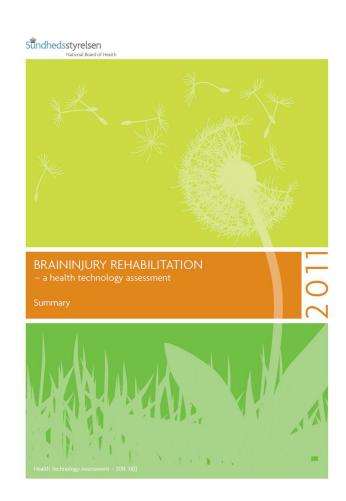
Conclusions on the five hypotheses

- Best evidence is available for working with goal-setting, strategies for learning and client-centred approaches
- Less evidence for transferring knowledge and skills and the importance of multidisciplinary composition of rehabilitation services and teamwork
- For all these areas, guidance on how to work specifically with each area when it is implemented in practice needs to be explicitly outlined
- Challenge for brain injury rehabilitation: To collaborate between: Rehabilitations services – people with brain injury (needs) and Multidisciplinary teams



Project group

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- Henrik Stig Jørgensen
- Lisa von Huth Smith
- Britta Bjerrum Mortensen
- Part of a larger project group





Comments

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