Raising awareness and knowledge of the neurobehavioural approach to rehabilitation using "rehab mantras": A follow-up evaluation

Sara D S Ramos, Jan McIntosh-Brown, Natalia Masztalerz & Rudi Coetzer

sara.dasilvaramos@thedtgroup.org

Background and objectives

A three-part problem:

1 Neurobehavioural rehabilitation

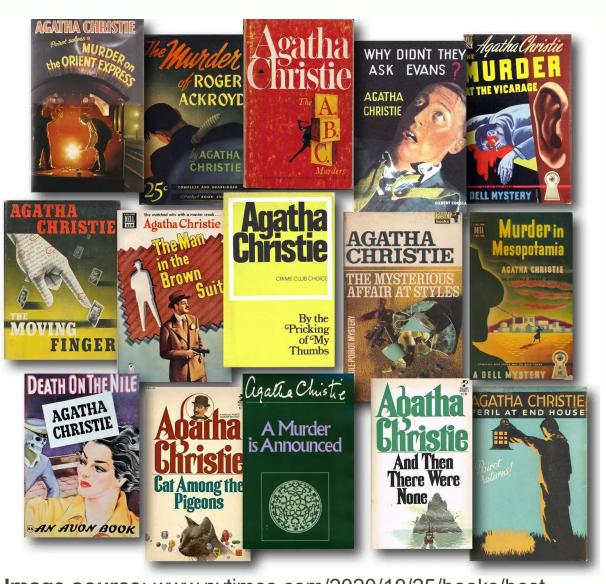
A complex clinical approach... (Wood & Worthington, 2001; Coetzer & Ramos, 2022)

2 The gap between research and practice

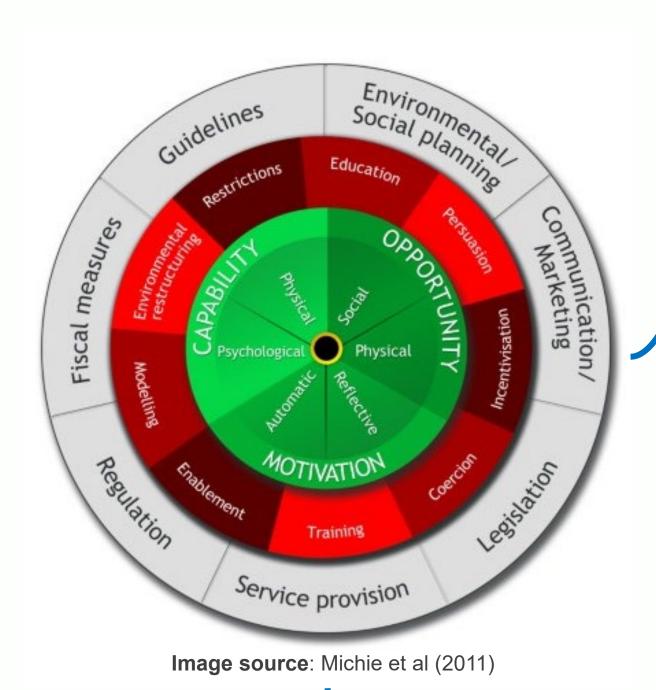
17-years!... (Davis et al., 2003; Morris et al., 2011)

3 Promoting change in dynamic environments

As challenging as solving a murder mystery... (Michie et al., 2011)







Recent injury (< six months) Recent or chronic injury Impaired self-awareness Explicit learning ability retained Limited use of strategies No psychological co-morbidities Psychological co-morbidities Restoration compensation Programme focus: Programme focus: Programme focus: Psychoeducation Psychoeducation Case management Supportive environment Restorative therapies Psychotherapy (through guidelines and staff Functional skills training Psychotherapy interactions) Compensatory strategy development and training Family interventions Psychotherapy Interim outcomes Behaviour monitoring Goal achievemen Rehabilitation planning **End point outcomes** Maintained function Increased awareness / Reduced impairment Stable mood and wellbeing mproved function Improved function Reduced supervision



Questions:

- Can we describe a complex model in simple messages?...
- ... And can that influence practice?



The

Disabilities

Trust

Image source: freepik.com

Method

N = 63

Knowledge Quiz

Participants

- 38 staff + 25 members of the public Materials
- Forced choice questionnaire
- Why do you think we say "Every interaction is rehab?"

Measures

- Response accuracy (% correct)
- Total quiz score (% correct)
- Favourite mantra (% selected)

N = 10

Participants

Interviews

 10 staff selected at random from mailing list

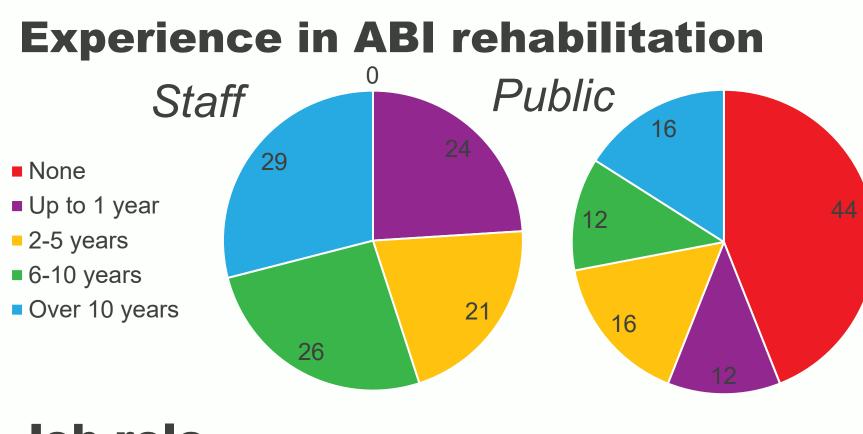
Materials

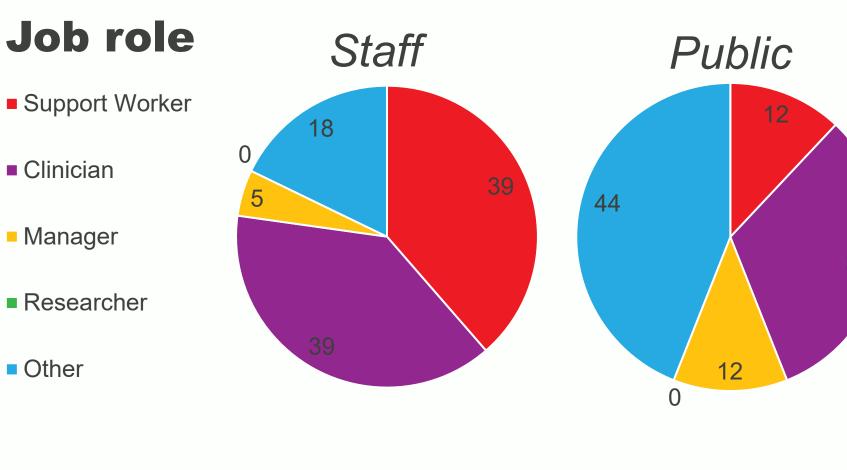
- 5-minute interview via Microsoft Teams
 - What can you tell me about the rehab mantras?
 - Did they help you understand how we do rehab?
 - Were they useful in your practice?

Measures

Thematic analysis (traditional + ChatGPT)

Results

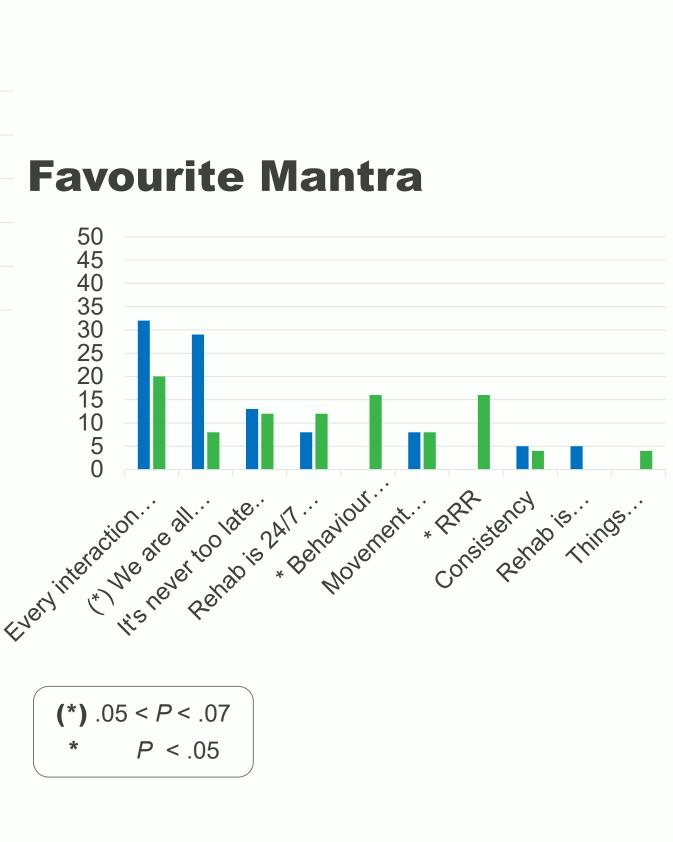


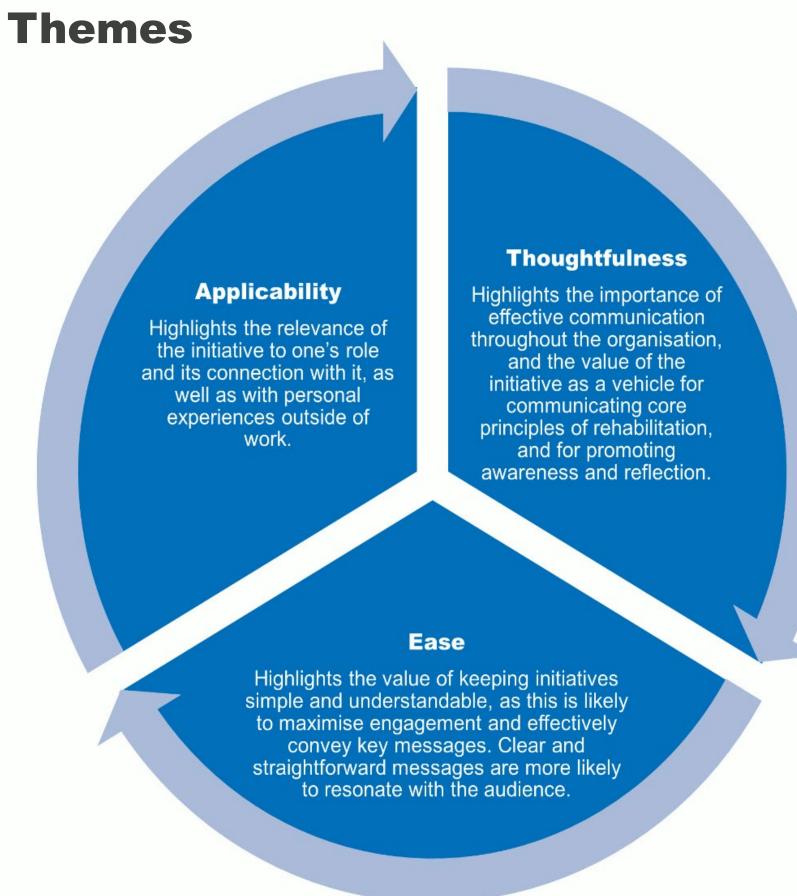


100 **Accuracy by Mantra** Every Linds for Course Mon See Bellow, the op Selfolis Se

■ Staff ■ Public

Total Quiz Score





Conclusions

Limited differences between staff and the public:

Disability and Social Handicap Following Traumatic Brain Injury. Hove: Psychology Press.

- Consistency leads to success (not explained by experience, or role)
- "Team spirit" mantra preferred by staff | Mantras grounded on positive behaviour support and developmental psychology preferred by the public.
- Themes validate value of describing complexity in simple messages, but limited impact on practice to date.

Limitations and future directions

- Quiz questions may have been too easy, leading to limited sensitivity to detect an impact.
- Room for improvement in terms of increasing visibility and applicability within the organisation.
- Limited change in day-to-day practice, but some improvements on aspects of Capability, Opportunity and Motivation (Miche et al., 2011).

References

- Coetzer, & Ramos (2022). A neurobehavioral therapy approach to the rehabilitation and support of persons with brain injury: Practice-based evidence from a UK charitable rehabilitation provider. Frontiers in Rehabilitation Sciences, 3, 150.
- Davis, et al. (2003). The case for knowledge translation: shortening the journey from evidence to effect. *BMJ*, 327(7405), 33-35. Michie, et al. (2011). The behaviour change wheel: a new method for characterising and designing behaviour change interventions.
- *Implementation Science*, 6(1), 1-12. ■ Morris, Z. S., Wooding, S., & Grant, J. (2011). The answer is 17 years, what is the question: understanding time lags in translational research.
- Journal of the Royal Society of Medicine, 104(12), 510-520. ■ Wood & Worthington (2001) Neurobehavioural rehabilitation: a conceptual paradigm. In R. Ll. Wood & T. M. McMillan (Eds.) Neurobehavioural

Acknowledgements

We would like to thank everyone involved in the Rehab Mantras initiative in any capacity.

