
Available from Deakin Research Online:

http://hdl.handle.net/10536/DRO/DU:30041196

Every reasonable effort has been made to ensure that permission has been obtained for items included in Deakin Research Online. If you believe that your rights have been infringed by this repository, please contact drosupport@deakin.edu.au

Copyright : 2011, Occupational Therapy Australia
Facilitating Neuroplasticity:

Evidence-Based Novel Interventions for Occupational Therapy

Johanne Walker: Deakin University, Geelong
E: johanne.walker@deakin.edu.au

Neuroplasticity:

Brain's life-long ability to change

Common Principles:

- Motivating goal-directed tasks
- Focussed attention
- Intensive repetition in training
- Massed practice
- Activity that challenges the system
- Variety in task or environment
- Targeted feedback

Techniques:

- SENSE: Somatosensation
- CIMT: Motor Control
- Brain Fitness: Cognitive Function

SENSe: Study of the Effectiveness of Neurorehabilitation on Sensation

- Intensive component training
- Client-centred training

Constraint-Induced Movement Therapy:

- Targets diminished use of affected arm
- Constrains less affected arm
- Modifications to protocol
- Addresses client's goals
- ?more acute clients
Brain Fitness:

- Addresses cognitive decline in normal ageing
- Six computer exercises
- Improves memory and attention
- Research :?effects on people with ABI

Brain Fitness Training

The Future: