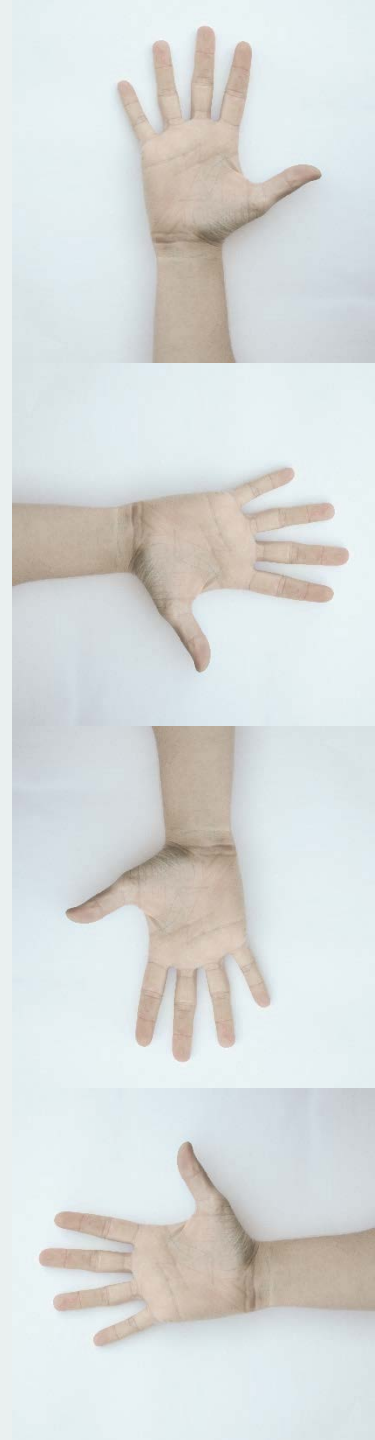


Interesting implications for the use of mental motor imagery in clinical practice

Nichole Phillips, MOst

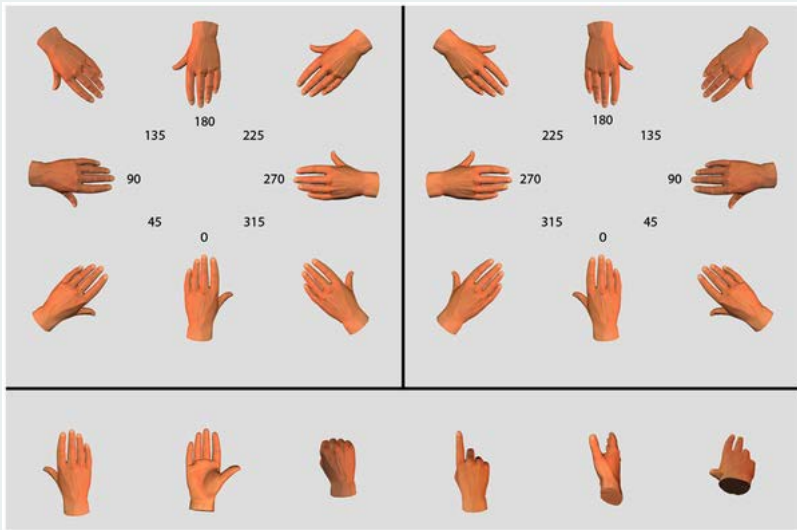
Lecturer

Unitec Institute of Technology



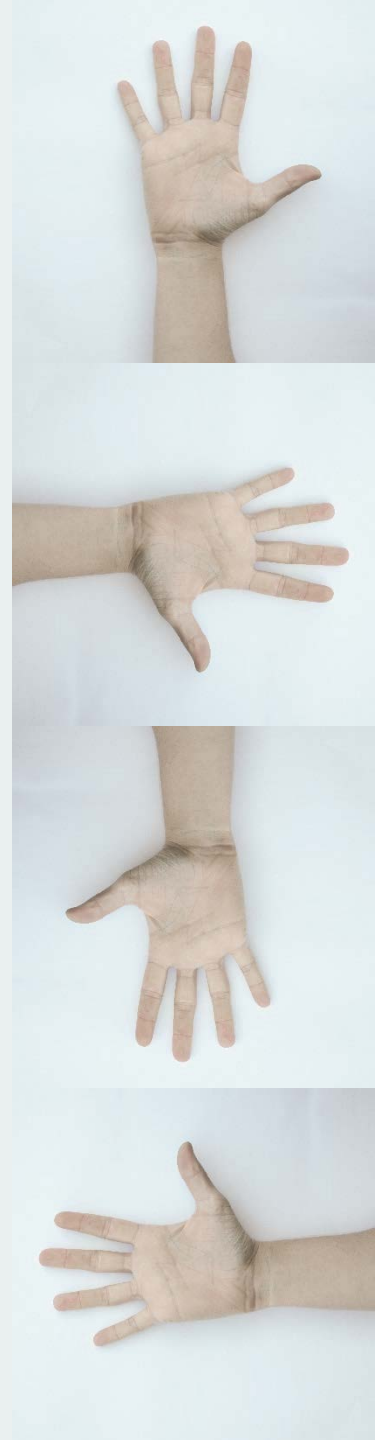
Mental motor imagery

- Graded motor imagery
 - Left-right discrimination
 - Explicit motor imagery
 - Mirror therapy



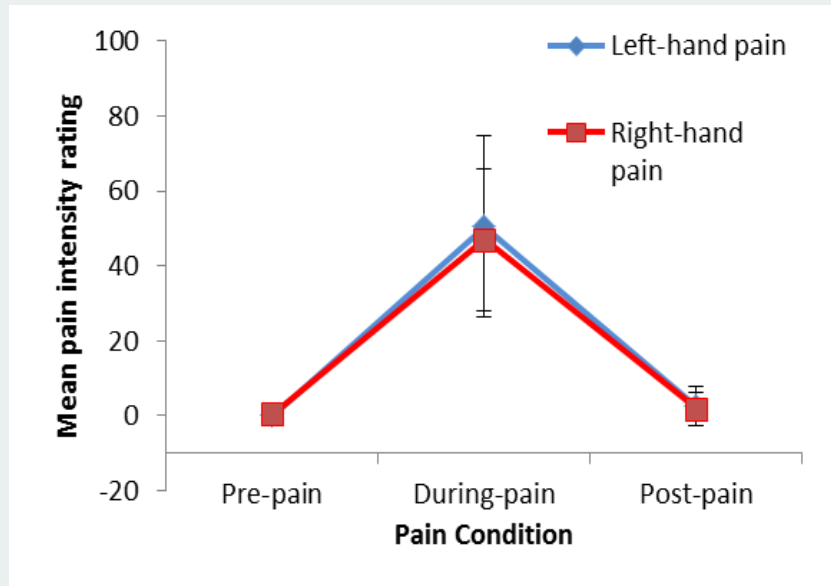
Left-right discrimination

- Normative results
- During chronic pain
- During acute experimental pain

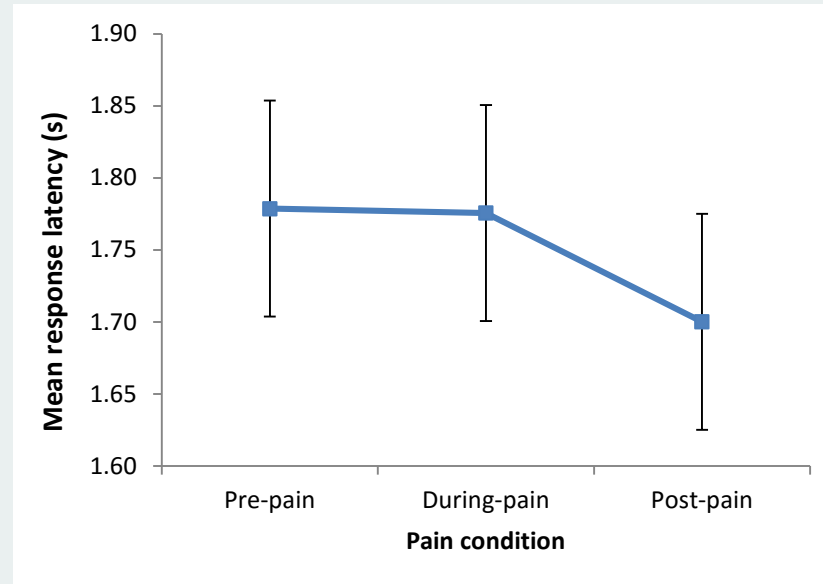


Interesting patient responses

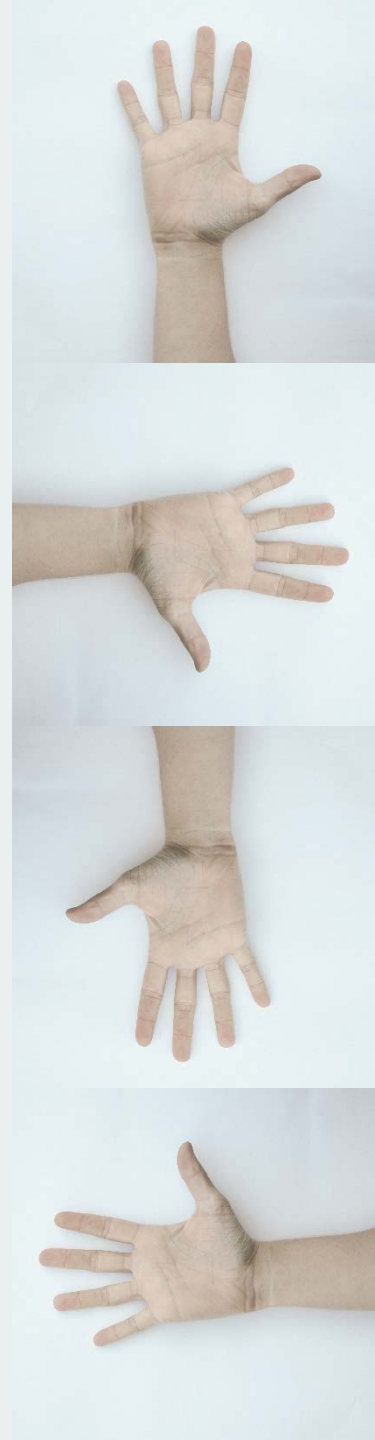
- In a chronic pain scenario (CRPS, type 2)
- In an acute experimental pain scenario



Mean peak pain intensity ratings recorded during each pain condition (pre-, during and post-pain) for each pain location (left and right thenar eminence) (Error bars represent Standard Errors, SE).

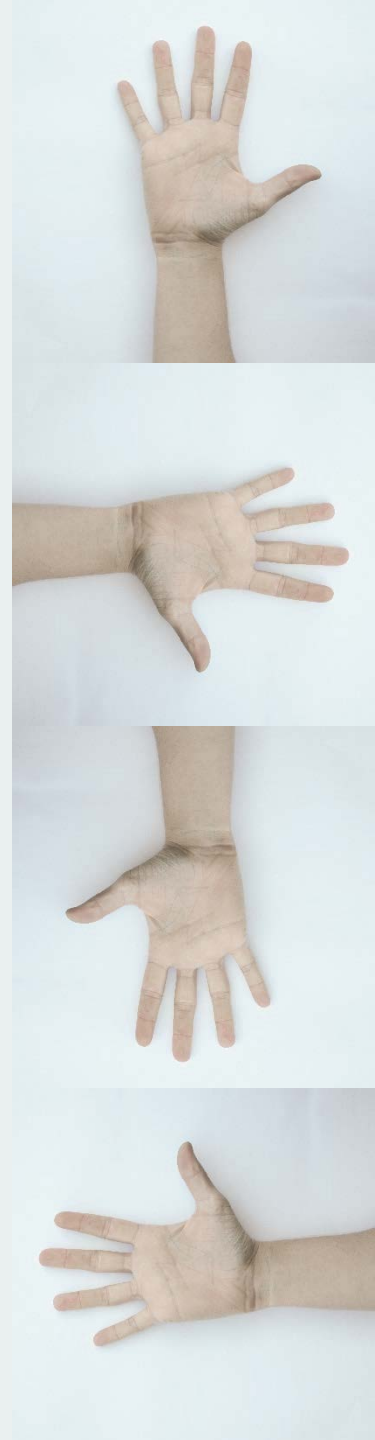


Mean response times (s) during the pre-pain, during-pain and after-pain condition for all images and pain locations (left pain, right pain) (Error bars represent Standard Errors, SE).



Implications for clinical practice

- Mental motor imagery strategy important
- Instructions important
- Psychosocial factors important



Questions?



References

King, R., Johnson, M. I., Ryan, C. G., Robinson, V., Martin, D. J., & Punt, T. D. (2015). My Foot? Motor imagery-evoked pain, alternative strategies and implications for laterality recognition tasks. *Pain Medicine*, 16(3), 555–557.

<https://doi.org/10.1111/pme.12646>

Moseley, G. L., Sim, D. F., Henry, M. L., & Souvlis, T. (2005). Experimental hand pain delays recognition of the contralateral hand - Evidence that acute and chronic pain have opposite effects on information processing? *Cognitive Brain Research*, 25(1), 188–194. <https://doi.org/10.1016/j.cogbrainres.2005.05.008>

NOI Group. (n.d.). So ... what is gmi?, 1–2. Retrieved from <http://www.noigroup.com/documents/noi-gmi-evidence.pdf>

Phillips, N., Moran, R., & Mannion, J. (2014). Effect of acute experimental hand pain on left-right discrimination response latency for hand recognition. Retrieved from <http://unitec.researchbank.ac.nz/handle/10652/2672>

