Interventions for treating pain and disability in adults with complex regional pain syndrome

Neil E O’Connell¹, Benedict M Wand², James McAuley³, Louise Marston⁴, G Lorimer Moseley⁵

¹Centre for Research in Rehabilitation, School of Health Sciences and Social Care, Brunel University, Uxbridge, UK. ²School of Physiotherapy, University of Notre Dame, Australia, Fremantle, Australia. ³Moseley Group, Neuroscience Research Australia, Randwick, Australia. ⁴Research Department of Primary Care & Population Health, Division of Population Health, Faculty of Biomedical Sciences, University College London, London, UK. ⁵School of Health Sciences, University of South Australia, Adelaide, Australia

Contact address: Neil E O’Connell, Centre for Research in Rehabilitation, School of Health Sciences and Social Care, Brunel University, Kingston Lane, Uxbridge, Middlesex, UB8 3PH, UK. neil.oconnell@brunel.ac.uk.

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ABSTRACT

Background
There is currently no strong consensus regarding the optimal management of complex regional pain syndrome although a multitude of interventions have been described and are commonly used.

Objectives
To summarise the evidence from Cochrane and non-Cochrane systematic reviews of the effectiveness of any therapeutic intervention used to reduce pain, disability or both in adults with complex regional pain syndrome (CRPS).

Methods
We identified Cochrane reviews and non-Cochrane reviews through a systematic search of the following databases: Cochrane Database of Systematic Reviews, Database of Abstracts of Reviews of Effects (DARE), Ovid MEDLINE, Ovid EMBASE, CINAHL, LILACS and PEDro. We included non-Cochrane systematic reviews where they contained evidence not covered by identified Cochrane reviews. The methodological quality of reviews was assessed using the AMSTAR tool.

We extracted data for the primary outcomes pain, disability and adverse events, and the secondary outcomes of quality of life, emotional well being and participants’ ratings of satisfaction or improvement. Only evidence arising from randomised controlled trials was considered. We used the GRADE system to assess the quality of evidence.

Main results
We included six Cochrane reviews and 13 non-Cochrane systematic reviews. Cochrane reviews demonstrated better methodological quality than non-Cochrane reviews. Trials were typically small and the quality variable.

There is moderate quality evidence that intravenous regional blockade with guanethidine is not effective in CRPS and that the procedure appears to be associated with the risk of significant adverse events.