## Complex Regional Pain Syndrome Medical Treatment Guideline 2017 Revision Search Strategy and Study Selection

This document outlines the search strategy, study selection, and search results for the Colorado Division of Workers' Compensation Complex Regional Pain Syndrome Medical Treatment Guidelines. It also describes how articles were selected for critique.

### **Search strategy**

Database: PubMed, Cochrane Library

Date(s) when the search was done: July 2016

Time period covered by the search: January 2011 through July 2016

Search terms:

Complex regional pain syndrome Reflex sympathetic dystrophy syndrome

#### Study selection

Inclusion criteria: Studies in English; human; adults; RCT, systematic reviews, or meta-analysis

*Exclusion criteria*: Article titles containing an obvious mismatch with search criteria and search terms were eliminated (e.g., pediatric population, wrong condition). Abstracts were reviewed to exclude articles based on the following criteria.

- Lack of relevancy to workers' compensation population
- Major obvious errors in study protocol (e.g., lack of control group even though study was listed as an RCT)
- Study was included in a meta-analysis reviewed by Division staff (e.g., Cochrane Collaboration, BMJ Clinical Evidence)
- Study was published outside of time frame
- Cadaverous studies
- Preliminary results
- Healthy volunteers
- Studies not applicable to treatment guidelines conditions (e.g., tumor studies were excluded)
- Studies too technical in nature to meet the objective of the guideline (e.g., study comparing types of screws used in surgery).

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#### Search results

Number of articles identified by database search: 147

Number of articles included for review after exclusion criteria were applied to database search results (see criteria above): 45

Other literature was included in addition to sources identified by searches in the electronic databases. Some references were carried over from earlier versions of the guidelines. Other articles were selected by hand searches of publish literature. Articles submitted by the public and from volunteer advisory bodies to the Colorado Division of Workers' Compensation were also reviewed. All reviewed articles were included in the full Bibliography (included in this submission), but not all references qualified to be cited in the guideline. In total, 443 references were included in the full bibliography.

Included studies were reviewed for quality and relevancy. Some articles were excluded based on a "second tier" of exclusion criteria:

- Sample size too small <20 per group</li>
- Animal study
- No outcomes of interest
- Population too old/young (<18 or >70)
- Study protocol and not an RCT
- Pilot study
- Surgical technique
- Included in a meta-analysis, systematic review, or Cochrane
- Review includes only one relevant RCT (RCT critiqued instead)
- No RCTs included (for a systematic review)
- Lack of assessor blinding (mainly drug studies)
- Inclusion criteria: ≥ 3 months of pain
- Not actually an RCT (lack of randomization)
- Narrative review
- Editorial
- Uninformative
- Not relevant or of interest
- Follow-up too short (<12 weeks)</li>
- Study is too old (2010 or older)
- Article unobtainable or not in English
- Superseded by a more recent review
- No primary outcome
- Critiqued in previous version of our guideline



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Remaining studies qualified for critique using the Division's Literature Critique Criteria. Studies assessed as "adequate" or "high quality" were used for evidence statements. Three levels ("some," "good," and "strong") were then used to describe strength of evidence for recommendations based on the amount and quality of the supporting literature. For more information regarding literature assessment and resulting evidence statements, see Cumulative Trauma Conditions on the Division's website for (a) Literature Critique Criteria, which are under "Assessment Criteria for Critiques" on the website, (b) the Evidence Summary/Table, and (c) Critiques for individual articles: <a href="https://www.colorado.gov/pacific/cdle/medical-treatment-guidelines">https://www.colorado.gov/pacific/cdle/medical-treatment-guidelines</a>.

Number of articles used to support evidence statements: 67