



TITLE: Compounded Diclofenac Cream for Topical Anti-Inflammatory Treatment: Clinical and Cost-Effectiveness, and Guidelines

DATE: 30 April 2015

RESEARCH QUESTIONS

1. What is the clinical effectiveness of compounded diclofenac cream used as a topical anti-inflammatory treatment?
2. What is the cost-effectiveness of compounded diclofenac cream used as a topical anti-inflammatory treatment?
3. What are the evidence-based guidelines regarding the use of compounded diclofenac cream as a topical anti-inflammatory treatment?

KEY FINDINGS

No relevant literature was identified regarding the use of compounded diclofenac cream as a topical anti-inflammatory treatment.

METHODS

A limited literature search was conducted on key resources including PubMed, The Cochrane Library, University of York Centre for Reviews and Dissemination (CRD) databases, Canadian and major international health technology agencies, as well as a focused Internet search. Methodological filters were applied to limit retrieval to health technology assessments, systematic reviews, meta-analyses, randomized controlled trials, non-randomized studies, economic studies, and guidelines. Where possible, retrieval was limited to the human population. The search was also limited to English language documents published between January 1, 2010 and April 20, 2015. Internet links were provided, where available.

The summary of findings was prepared from the abstracts of the relevant information. Please note that data contained in abstracts may not always be an accurate reflection of the data contained within the full article.

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SELECTION CRITERIA

One reviewer screened citations and selected studies based on the inclusion criteria presented in Table 1.

Table 1: Selection Criteria	
Population	Adults requiring anti-inflammatory treatment
Intervention	Compounded diclofenac cream
Comparator	Placebo; Alternate anti-inflammatory pain treatments
Outcomes	Clinical effectiveness; Clinical benefits and harms; Cost-effectiveness; Guidelines
Study Designs	Health technology assessments, systematic reviews, meta-analyses, randomized controlled trials, non-randomized studies, economic evaluations, evidence-based guidelines

RESULTS

Rapid Response reports are organized so that the higher quality evidence is presented first. Therefore, health technology assessment reports, systematic reviews, and meta-analyses are presented first. These are followed by randomized controlled trials, non-randomized studies, economic evaluations, and evidence-based guidelines.

No relevant health technology assessment reports, systematic reviews, meta-analyses, randomized controlled trials, non-randomized studies, economic evaluations, or evidence-based guidelines were identified regarding the clinical or cost-effectiveness of compounded diclofenac cream used as a topical anti-inflammatory treatment.

References of potential interest are provided in the appendix.

OVERALL SUMMARY OF FINDINGS

No relevant literature was found regarding the use of compounded diclofenac cream as a topical anti-inflammatory treatment; therefore, no summary can be provided.

REFERENCES SUMMARIZED

Health Technology Assessments

No literature identified.

Systematic Reviews and Meta-analyses

No literature identified.

Randomized Controlled Trials

No literature identified.

Non-Randomized Studies

No literature identified.

Economic Evaluations

No literature identified.

Guidelines and Recommendations

No literature identified.

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APPENDIX – FURTHER INFORMATION:

Health Technology Assessments – Topical Diclofenac

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See: *Key Question 4, pages 74 to 81*
Table A, Key Question 4, page ES-15
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Systematic Reviews and Meta-analyses – Topical Diclofenac

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See: *D1: Acetaminophen and Non-steroidal Anti-inflammatory Drugs, pages 30 to 31*

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See: *Topical treatments, recommendation 1.5.3*
9. Hooten WM, Timming R, Belgrade M, Gaul J, Goertz M, Haake B, et al. Assessment and management of chronic pain [Internet]. Bloomington (MN): Institute for Clinical Systems Improvement; 2013 Nov. [cited 2015 Apr 28]. (Health Care Guideline). Available from: <http://www.nice.org.uk/guidance/cg177/chapter/1-recommendations%20-%20pharmacological-management>
See: *Topical Agents, page 46*
10. Scottish Intercollegiate Guidelines Network. Management of chronic pain: a national clinical guideline [Internet]. Edinburgh: SIGN; 2013 Dec. [cited 2015 Apr 28]. (SIGN publication no. 136). Available from: <http://www.sign.ac.uk/pdf/SIGN136.pdf>
See: *5.2.4 Topical NSAIDs*
11. Treatment of osteoarthritis of the knee: evidence-based guideline [Internet]. 2nd edition. Rosemont (IL): American Academy of Orthopaedic Surgeons; 2013 May 18. [cited 2015 Apr 28]. Available from: <http://www.aaos.org/research/guidelines/TreatmentofOsteoarthritisoftheKneeGuideline.pdf>
See: *Recommendation 7A, page 342*
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See: *Table 2: Extensor Compartment Tenosynovitis, Hand/Finger Osteoarthritis*

Review Articles

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See: *6. Topical Diclofenac, page 19*
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Additional References

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