TITLE: Disposable Mucosal Atomization Devices for Administering Benzodiazepines: Clinical Effectiveness

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RESEARCH QUESTIONS:

1. What is the clinical effectiveness of disposable mucosal atomization devices for the administration of benzodiazepines?

2. Is there evidence supporting accuracy of atomized doses with benzodiazepines of different viscous states and other physical properties?

METHODS:

A limited literature search was conducted on key health technology assessment resources, including PubMed, the Cochrane Library (Issue 4, 2008), University of York Centre for Reviews and Dissemination (CRD) databases, ECRI, EuroScan, international health technology agencies, and a focused Internet search. Results include articles published between 2004 and Jan 2009, and are limited to English language publications only. No filters were applied to limit the retrieval by study type. Internet links are provided, where available.

RESULTS:

HTIS 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, controlled clinical trials, and observational studies.

Five randomized controlled trials and one observational study were identified examining intranasal administration of benzodiazepines. Mucosal atomization devices were only specifically mentioned in two pediatric studies (references 10 and 11), located in the appendix. No relevant health technology assessments, systematic reviews, meta-analyses, or controlled clinical trials were identified.
Health technology assessments
No literature identified

Systematic reviews and meta-analyses
No literature identified

Randomized controlled trials


Controlled clinical trials
No literature identified

Observational studies

PREPARED BY:
Michelle Clark, BSc, Research Assistant
Melissa Severn, MISt, Information Specialist
Health Technology Inquiry Service
Email: htis@cadth.ca
Tel: 1-866-898-8439
APPENDIX – FURTHER INFORMATION:

Randomized controlled trials – pediatric population


Observational studies – pediatric population


Additional references