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Disclaimer:

Technology review is a brief report, prepared on an urgent basis, which draws on restricted reviews from analysis of pertinent literature, on expert opinion and / or regulatory status where appropriate. It is subjected to an external review process. While effort has been made to do so, this document may not fully reflect all scientific research available. Additionally, other relevant scientific findings may have been reported since completion of this review.

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Introduction

Needleless system is a device which provides an alternative to needles for various procedures to minimize pain and reduce the risk of injury involving contaminated sharps. Needleless System is well known since the sixties in various fields including in dentistry. Instead of reducing pain, it also minimizes needle prick injuries among health care practitioners.

This technology review on ██████████: Needleless Injector was requested by Dental Health Senior Director of Ministry of Health, Malaysia.

Objective/Aim

The objective of this technology review was to assess the safety, efficacy or effectiveness and cost-effectiveness of ██████████: Needleless Injector in dentistry.

Results and Conclusions

The search strategies found two studies on efficacy and two studies on safety, of ██████████: Needleless Injector in dentistry. There was also retrievable evidence on FDA approval for ██████████ under 510(k) in 1979. However, there was no evidence on cost-effectiveness of ██████████.

Methods

Electronic databases were searched, included PubMed, Ovid Medline (R) from 1990-2006 (EBM Reviews – Cochrane Databases of Systematic Reviews), Ovid Medline (R) from 1990-2006 (EBM Reviews – Cochrane Databases of Controlled Trial), National Horizon Scanning, INAHTA and FDA, NIOSH website, for published reports. There was no limit in the search. Additional articles were identified from reviewing the bibliographies of retrieved articles.