

Title INJEX (Needle Free Drug Delivery System)

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Aim

To assess the safety, efficacy / effectiveness and costeffectiveness of Injex (needle free drug delivery system) to deliver drugs or medication such as insulin, vaccine, and low molecular weight heparin (LMWH).

Conclusions and results

There was limited fair to good level of evidence retrieved to show that needle free drug delivery system was effective to deliver drugs or medications such as vaccine, anaesthetic drugs and low molecular weight heparin (LMWH). However, there were also adverse event reported while using such device. Besides that, cost-effectiveness study retrieved was only on the use of needleless jet-injection system with Lidocaine for peripheral intravenous (IV) cannula insertion which incurred more cost compared to the use of conventional method (needle-syringe method).

Methods

Electronic databases were searched through Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations and Ovid MEDLINE(R) 1948 to present, EBM Reviews - NHS Economic Evaluation Database 4th Quarter 2012, EBM Reviews - Cochrane Database of Systematic Reviews 2005 to December 2012 and EBM Reviews - Cochrane Central Register of Controlled Trials December 2012. Searches were also run in PubMed, Horizon Scanning databases, FDA website and INAHTA for published reports. Only studies published within 1990s to 2000s were included in this technology review report.

Further research/reviews required

The injex (needle free drug delivery system) require more local clinical trial to make sure the safety and the efficacy of the device to deliver drugs and medications.

Written by

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