

Title Auto-Destruct Mini Syringe

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Reference Technology Review Report, 007/2011online:
http://www.moh.gov.my/index.php/database_stores/store_view_page/30/218

Aim

To assess the safety, efficacy/effectiveness and cost-effectiveness of auto-destruct mini syringe for immunisation.

Conclusions and results

Limited good level of evidence showed that auto-destruct mini syringe improved vaccination coverage and reduced vaccine wastage. Theoretically, it may reduce needle stick injury and blood-borne infection which may occur through contaminated re-used needle. However, there was insufficient evidence on the safety. The cost of auto destruct syringes is more expensive than sterilized syringes, which may increase the national immunisation budget but may save the cost of vaccine wastage. However, proper training on the usage and safety measures of the syringe is required especially among the experience vaccinators.

Recommendations

Based on the above review, auto destruct syringe may be recommended for research purpose.

Methods

Electronic databases were searched from inception: MEDLINE including MEDLINE In-Process & Other Non-Indexed Citations (Ovid); Pubmed; EBM Reviews, Cochrane database of systematic; EBM Reviews - Health Technology Assessment; NHS economic evaluation database.

Searches were also run in Horizon Scanning database (National Horizon Scanning Centre, Australia and New Zealand Horizon Scanning Network, National Horizon Scanning Birmingham, EuroScan) and FDA.

In addition to the database searches, articles were identified from reviewing the bibliographies of retrieved articles and hand searching of journals.

A combination of both controlled vocabulary, such as the National Library of Medicine's MeSH (Medical Subject Headings), and keywords free text.

Further research/reviews required

More clinical research is warranted.

Written by

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