TITLE: Automated External Defibrillation in Pediatrics: Clinical-Effectiveness and Guidelines

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RESEARCH QUESTIONS:

1. What are the benefits and harms associated with pediatric defibrillation using an automated external defibrillator?

2. What are the guidelines associated with pediatric defibrillation?

METHODS:

A limited literature search was conducted on key health technology assessment resources, including PubMed, the Cochrane Library (Issue 2, 2009), University of York Centre for Reviews and Dissemination (CRD) databases, ECRI, EuroScan, international health technology agencies, and a focused Internet search. The search was limited to English language articles published between 2004 and June 2009. Filters were applied to limit the retrieval of health technology assessments, systematic reviews, meta-analyses, randomized controlled trials, controlled clinical trials, and guidelines. Internet links were 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 evidence-based guidelines.

Four evidence-based guidelines were identified pertaining to the use of automated external defibrillation in pediatric patients. No relevant health technology assessments, systematic reviews, meta-analyses, randomized controlled trials, or controlled clinical trials were identified. Additional information that may be of interest, including consensus statements and observational studies, has been included in the appendix.
Health technology assessments
No literature identified.

Systematic reviews and meta-analyses
No literature identified.

Randomized controlled trials
No literature identified.

Controlled clinical trials
No literature identified.

Guidelines and recommendations

   See pg 2: Shockable (VF/Pulseless V) and pg 4: Key Points

   See pg 157: Activate the EMS System and Get the AED

   See pg 172: Pulseless Arrest

   See pg 25: Children

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APPENDIX – FURTHER INFORMATION:

Consensus statements and position papers


Observational studies


Reviews