 TITLE: Ulipristal for Emergency Contraception: Clinical Effectiveness, Cost-Effectiveness, and Guidelines

DATE: 02 December 2015

RESEARCH QUESTIONS

1. What is the clinical effectiveness and safety of ulipristal compared to other interventions for emergency contraception?

2. What is the cost-effectiveness of ulipristal compared to other interventions for emergency contraception?

3. What are the evidence-based guidelines regarding emergency contraception?

KEY FINDINGS

Three systematic reviews, three randomized controlled trials, two non-randomized studies, and four economic evaluations were identified regarding ulipristal compared to other interventions for emergency contraception. Seven evidence-based guidelines were identified regarding emergency contraception.

METHODS

A limited literature search was conducted on key resources including PubMed, The Cochrane Library, University of York Centre for Reviews and Dissemination (CRD) databases, ECRI Institute, Canadian and major international health technology agencies, as well as a focused Internet search. For research question 1 and 2 no filters were applied to limit retrieval by study type. For research question number 3 methodological filters were applied to limit retrieval to guidelines. The search was also limited to English language documents published between Jan 1, 2010 and Nov 25, 2015. Internet links were provided, where available.
SELECTION CRITERIA

One reviewer screened citations and selected studies based on the inclusion criteria presented in Table 1.

Table 1: Selection Criteria

<table>
<thead>
<tr>
<th>Population</th>
<th>Females of child-bearing age</th>
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<tbody>
<tr>
<td>Intervention</td>
<td>Ulipristal for emergency contraception</td>
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<tr>
<td>Comparator</td>
<td>Other emergency contraceptives including:</td>
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<td>- Copper intra-uterine devices</td>
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<td></td>
<td>- Progestin-only emergency contraceptives (levonorgestrel)</td>
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<td></td>
<td>- Combined progestin-estrogen pills used as emergency contraceptives (also referred to as the Yuzpe method)</td>
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<td></td>
<td>- Mifepristone</td>
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<tr>
<td>Outcomes</td>
<td>Effectiveness in preventing pregnancy; Safety and harms; Cost-effectiveness Evidence-based guidelines</td>
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<tr>
<td>Study Designs</td>
<td>Health technology assessments, systematic reviews, meta-analyses, randomized controlled trials, non-randomized studies, economic evaluations, evidence-based guidelines</td>
</tr>
</tbody>
</table>

RESULTS

Rapid Response 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, non-randomized studies, economic evaluations, and evidence-based guidelines.

Three systematic reviews, three randomized controlled trials, two non-randomized studies, and four economic evaluations were identified regarding ulipristal compared to other interventions for emergency contraception. Seven evidence-based guidelines were identified regarding emergency contraception. No relevant health technology assessments were identified.

Additional references of potential interest are provided in the appendix.

Health Technology Assessments
No literature identified.

Systematic Reviews and Meta-analyses


Randomized Controlled Trials


Non-Randomized Studies


Economic Evaluations


11. Thomas CM, Cameron S. Can we reduce costs and prevent more unintended pregnancies? A cost of illness and cost-effectiveness study comparing two methods of

Guidelines and Recommendations


See: Recommendation 9 Providing emergency contraception, pages 18-19

See: Interventions to Prevent Unintended Pregnancies

See: Emergency Contraception, pages 34-35


PubMed: PM22971457

See: 4.5 Emergency Contraception, pages 6-7
APPENDIX – FURTHER INFORMATION:

Randomized Controlled Trials – Pooled Analysis of Pharmacodynamic Studies


Non-Randomized Studies

Usage Patterns


Qualitative Studies


Policy Statements and Clinical Practice Guidelines – Methodology Not Specified


PubMed: PM21731419

Review Articles

PubMed: PM26390246


PubMed: PM26546020

PubMed: PM26287780

PubMed: PM24787486