Title: Apixaban and Rivaroxaban for Stroke Prevention in Atrial Fibrillation: Safety

DATE: 28 March 2014

RESEARCH QUESTIONS

1. What are the adverse events associated with the use of apixaban?

2. What are the adverse events associated with the use of rivaroxaban?

KEY MESSAGE

Twenty-two systematic reviews/meta-analyses, 24 randomized controlled trials, and three non-randomized studies were identified regarding adverse events associated with the use of apixaban and rivaroxaban.

METHODS

A limited literature search was conducted on key resources including PubMed, The Cochrane Library (2014, Issue 3), University of York Centre for Reviews and Dissemination (CRD) databases, Canadian and major international health technology agencies, as well as a focused Internet search. Methodological filters were applied to limit retrieval to safety data. Where possible, retrieval was limited to the human population. The search was also limited to English language documents published between January 1, 2009 and March 20, 2014. Internet links were provided, where available.

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 and non-randomized studies.

Twenty-two systematic reviews/meta-analyses, 24 randomized controlled trials, and three non-randomized studies were identified regarding adverse events associated with the use of apixaban and rivaroxaban. No health technology assessments were identified.

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Additional references of potential interest are provided in the appendix.

**Apixaban**

**Health Technology Assessments**
No literature identified.

**Systematic Reviews and Meta-analyses**

**Randomized Controlled Trials**


8. Wallentin L, Lopes RD, Hanna M, Thomas L, Hellkamp A, Nepal S, et al. Efficacy and safety of apixaban compared with warfarin at different levels of predicted international


Non-Randomized Studies
No literature identified.

Rivaroxaban

Health Technology Assessments
No literature identified.

Systematic Reviews and Meta-analyses


Randomized Controlled Trials


Non-Randomized Studies


Apixaban and Rivaroxaban

Health Technology Assessments
No literature identified.

Systematic Reviews and Meta-analyses


   PubMed: PM22912382

   PubMed: PM23071159

   PubMed: PM22801398

   PubMed: PM22575324

   PubMed: PM22740145

   PubMed: PM22537354

   PubMed: PM23129490

   PubMed: PM22787066

   PubMed: PM22771555
Randomized Controlled Trials
No literature identified.

Non-Randomized Studies
No literature identified.

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APPENDIX – FURTHER INFORMATION:

Review Articles


Additional References

See section: “Safety”

See section on “Safety”

See: Table 1: Efficacy and safety outcomes during follow-up (FU) of rivaroxaban (RX) therapy in atrial fibrillation