17 February 2012
EMA/CHMP/119704/2012
Press Office

Press release

European Medicines Agency recommends lifting suspension of aproatinin
Review finds that benefits of all antifibrinolytic medicines outweigh risks in restricted range of indications

The European Medicines Agency has recommended that the suspension of the marketing authorisations for aproatinin-containing medicines in the European Union (EU) be lifted. This follows a full review of the benefits and risks of all antifibrinolytic medicines, which found that the results of the BART study on which the suspension was based are unreliable.

Aproatinin is an antifibrinolytic medicine, which prevents excessive blood loss. It works by preventing the breakdown of fibrin, a protein found in blood clots. Prior to its suspension in 2008, aproatinin was authorised for patients undergoing heart bypass surgery.

The Agency’s Committee for Medicinal Products for Human Use (CHMP) has now concluded that aproatinin’s benefits in preventing blood loss outweigh its risks in patients undergoing isolated heart bypass surgery who are at high risk of major blood loss. It should only be used in this narrower group of patients once the doctor has assessed the benefits and risks of treatment carefully and considered alternative treatments.

Aproatinin was suspended as a precautionary measure on the recommendation of the CHMP, following the preliminary results of the BART study, a randomised controlled trial in high-risk heart surgery patients. These results appeared to show an increased death rate in patients receiving aproatinin after 30 days compared to patients taking other medicines, and led to the early discontinuation of the study by its data safety monitoring board.

The current review was started after the publication of the final results of the BART study and looked at this study’s results, as well as the results of other clinical studies, data from the scientific literature, reports of side effects and information submitted by the companies that market antifibrinolytic medicines. The CHMP also took the views of its scientific advisory group into account.

The Committee found that there were a number of problems with the way the BART study was conducted, which cast doubt on the previous conclusions. These included the imbalances in the way blood-thinning medicines such as heparin were used, inappropriate monitoring of the use of these medicines, and the high risk of death in patients receiving aproatinin.
medicines and how problems with the way that data from some patients were excluded from the initial analysis. The Committee found that the BART study’s results were not replicated in other studies and that the overall data available showed that aprotinin’s benefits are greater than its risks in the restricted indication.

As a condition of the lifting of the suspension, the Committee also recommended that doctors be warned of the risk of giving patients too little heparin, as well as the establishment of a registry to record information on the use of aprotinin in the EU.

The review also included the antifibrinolytic medicines aminocaproic acid and tranexamic acid, which have been used since the 1960s in patients undergoing dental or surgical procedures or at risk of complications from bleeding. The Committee found no new safety concerns for these medicines. However, it noted that there is very limited information available on some of the conditions that these medicines are used to treat. Therefore, the Committee recommended a restricted list of conditions in which they should be used based on the currently available evidence.

The Committee also requested that a study be carried out to gather more information on how tranexamic acid should be optimally dosed in children.

Notes
1. This press release, together with all related documents, is available on the Agency’s website.
2. The review procedure was initiated by Germany under Article 31 of Directive 2001/83/EC, as amended. An Article 31 referral may be initiated in specific cases where the interest of the Community is involved. The expression ‘Community interest’ has a broad meaning but it refers particularly to the interests of the public health in the EU, for example following concerns related to the quality, efficacy and/or safety of a medicinal product or new pharmacovigilance information.
5. The CHMP concluded that the evidence supported the use of aminocaproic acid in patients of all ages in haemorrhage caused by local or general fibrinolysis, including in:
   - postsurgical haemorrhages in urology (surgery of the bladder and prostate gland), gynaecology (cervical surgery) in patients where tranexamic acid is not available or not tolerated, obstetrics (post-partum and post-miscarriage haemorrhages) after correction of the coagulation defect, heart surgery (with or without bypass placement), gastroenterology or odonto-stomatolagy (dental extractions in haemophilic patients undergoing anticoagulant therapy);
   - life-threatening haemorrhages induced by thrombolytics (streptokinase etc.);
   - haemorrhages associated with thrombocytopenia, thrombopenic purpura, leukaemia;
   - nonsurgical haematuria of the lower urinary tract (secondary to cystitis, etc.);
   - intense menstruations, menorrhagia and haemorrhagic metropathies;
   - angioneurotic oedema.
6. The CHMP concluded that the evidence supported the use of tranexamic acid in the prevention and treatment of haemorrhages due to general or local fibrinolysis in adults and children from one year, including haemorrhage caused by general or local fibrinolysis such as:

- menorrhagia and metrorrhagia;
- gastrointestinal bleeding;
- haemorrhagic urinary disorders further to prostate surgery or surgical procedures affecting the urinary tract;
- ear, nose and throat surgery (adenoidectomy, tonsillectomy, dental extractions);
- gynaecological surgery or disorders of obstetric origin;
- thoracic and abdominal surgery and other major surgical intervention such as cardiovascular surgery;
- management of haemorrhage due to the administration of a fibrinolytic agent.

7. The CHMP’s recommendation will now be sent to the European Commission for the adoption of an EU-wide decision.

8. All other opinions and documents adopted by the CHMP at its February 2012 plenary meeting will be published on Friday, 17 February 2012 at 12.00 noon United Kingdom time on a dedicated web page.


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