Division Director's Review NDA: 20-883

Product: Argatroban Injection

Sponsor: Encysive Pharmaceuticals, Inc.

Today's date: May 2, 2008

Submission date: August 16, 2007 initiated the second cycle review of this

supplement which is intended to provide pediatric use information

within the label

1. Main point:

This supplemental NDA provides important new pediatric use information within the product label and I concur with the approval. The label revision does not revise the product's indication; instead, important dosing information is provided for use by clinicians in situations where they choose to use Argatroban among seriously ill pediatric patients. We have also denied the request for pediatric exclusivity (consistent with prior denial).

2. Background:

Argatroban is an arginine derivative/direct thrombin inhibitor approved for use as an anticoagulant in the prophylaxis or treatment of heparin-induced thrombocytopenia (HIT) as well as for use "in patients with or at risk for HIT undergoing percutaneous coronary intervention. This specific supplemental NDA submission contained pharmacokinetic/pharmacodynamic (PK/PD) and clinical data from a pediatric study and was intended to support addition of pediatric labeling information to the label.

Time line:

June 30, 2000 Approval; letter included a PMC "to conduct PK and safety studies

in pediatric patients to allow for appropriate dosing instructions in

this population."

March 19, 2004 FDA issues Written Request (WR) for pediatric studies

April 7, 2005 FDA issues a revised WR for pediatric studies ("outcomes and

PK/PD"

June 29, 2005 Encysive submits a pediatric supplement and request for pediatric

exclusivity determination; the exclusivity was denied

September 27, 2005 Pediatric exclusivity denied; internal recommendation memo from

Pediatric Exclusivity Board

December 21, 2005 FDA issues approvable letter for the supplement

August 16, 2007

Encysive submits this supplement/response to December 21, 2005 approvable letter; cover letter also requests a pediatric exclusivity determination and documentation of fulfillment of the pediatric PMC (from 2000)

3. Application content:

Encysive submitted extensive PK/PD data from a study that enrolled 18 seriously ill pediatric patients (including eight less than six months of age). These data were used in modeling analyses by the Clinical Pharmacology Biometrics review group to provide persuasive evidence that the initial, continuous infusion dose of Argatroban should be much lower (0.75 mcg/kg/min) for seriously ill pediatric patients than the dose recommended for adults (2.0 mcg/kg/min) in the product label.

Although the sample size for the clinical study precluded (as anticipated) the ability to identify a full therapeutic regimen, the detection of an important initial dosage consideration provides useful safety information. This initial dosage information is useful even in the absence of full therapeutic regimen information since Argatroban dosages are subsequently titrated to achieve specific anticoagulation goals (following the initiation of the drug)—i.e., in the general use of argatroban, identification of the initial infusion dose is among the most important safety considerations.

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