



EUROPEAN MEDICINES AGENCY
SCIENCE MEDICINES HEALTH

EMA/381912/2018

European Medicines Agency decision

P/0165/2018

of 15 June 2018

on the acceptance of a modification of an agreed paediatric investigation plan for empagliflozin (Jardiance), (EMEA-000828-PIP04-16-M01) in accordance with Regulation (EC) No 1901/2006 of the European Parliament and of the Council

Disclaimer

This decision does not constitute entitlement to the rewards and incentives referred to in Title V of Regulation (EC) No 1901/2006.

Only the English text is authentic.



European Medicines Agency decision

P/0165/2018

of 15 June 2018

on the acceptance of a modification of an agreed paediatric investigation plan for empagliflozin (Jardiance), (EMEA-000828-PIP04-16-M01) in accordance with Regulation (EC) No 1901/2006 of the European Parliament and of the Council

The European Medicines Agency,

Having regard to the Treaty on the Functioning of the European Union,

Having regard to Regulation (EC) No 1901/2006 of the European Parliament and of the Council of 12 December 2006 on medicinal products for paediatric use and amending Regulation (EEC) No. 1768/92, Directive 2001/20/EC, Directive 2001/83/EC and Regulation (EC) No 726/2004¹,

Having regard to Regulation (EC) No 726/2004 of the European Parliament and of the Council of 31 March 2004 laying down Community procedures for the authorisation and supervision of medicinal products for human and veterinary use and establishing a European Medicines Agency²,

Having regard to the European Medicines Agency's decision P/0162/2017 issued on 30 June 2017,

Having regard to the application submitted by Boehringer Ingelheim International GmbH on 1 February 2018 under Article 22 of Regulation (EC) No 1901/2006 proposing changes to the agreed paediatric investigation plan with a deferral and a waiver,

Having regard to the opinion of the Paediatric Committee of the European Medicines Agency, issued on 27 April 2018, in accordance with Article 22 of Regulation (EC) No 1901/2006,

Having regard to Article 25 of Regulation (EC) No 1901/2006,

Whereas:

- (1) The Paediatric Committee of the European Medicines Agency has given an opinion on the acceptance of changes to the agreed paediatric investigation plan.
- (2) It is therefore appropriate to adopt a decision on the acceptance of changes to the agreed paediatric investigation plan.

¹ OJ L 378, 27.12.2006, p.1.

² OJ L 136, 30.4.2004, p. 1.

Has adopted this decision:

Article 1

Changes to the agreed paediatric investigation plan for empagliflozin (Jardiance), film-coated tablet, age-appropriate formulation, oral use, are hereby accepted in the scope set out in the opinion of the Paediatric Committee of the European Medicines Agency annexed hereto, together with its appendices.

Article 2

This decision covers all conditions, indications, pharmaceutical forms, routes of administration, measures, timelines, waivers and deferrals, as agreed in the decision P/33/2011 issued on 28 January 2011, including subsequent modifications thereof.

Article 3

This decision is addressed to Boehringer Ingelheim International GmbH, Binger Strasse 173, 55216 - Ingelheim am Rhein, Germany.



EUROPEAN MEDICINES AGENCY
SCIENCE MEDICINES HEALTH

EMA/PDCO/92914/2018

London, 27 April 2018

Opinion of the Paediatric Committee on the acceptance of a modification of an agreed Paediatric Investigation Plan

EMA-000828-PIP04-16-M01

Scope of the application

Active substance(s):

Empagliflozin

Invented name:

Jardiance

Condition(s):

Treatment of type 1 diabetes mellitus

Authorised indication(s):

See Annex II

Pharmaceutical form(s):

Film-coated tablet

Age-appropriate formulation

Route(s) of administration:

Oral use

Name/corporate name of the PIP applicant:

Boehringer Ingelheim International GmbH

Information about the authorised medicinal product:

See Annex II



Basis for opinion

Pursuant to Article 22 of Regulation (EC) No 1901/2006 as amended, Boehringer Ingelheim International GmbH submitted to the European Medicines Agency on 1 February 2018 an application for modification of the agreed paediatric investigation plan with a deferral and a waiver as set out in the European Medicines Agency's decision P/0162/2017 issued on 30 June 2017.

The application for modification proposed changes to the agreed paediatric investigation plan.

Scope of the modification

Some measures of the Paediatric Investigation Plan have been modified.

Opinion

1. The Paediatric Committee, having assessed the application in accordance with Article 22 of Regulation (EC) No 1901/2006 as amended, recommends as set out in the appended summary report:
 - to agree to changes to the paediatric investigation plan in the scope set out in the Annex I of this opinion.

The Norwegian Paediatric Committee member agrees with the above-mentioned recommendation of the Paediatric Committee.

2. The measures and timelines of the paediatric investigation plan and the subset(s) of the paediatric population and condition(s) covered by the waiver are set out in the Annex I.

This opinion is forwarded to the applicant and the Executive Director of the European Medicines Agency, together with its annexes and appendix.

Annex I

The subset(s) of the paediatric population and condition(s) covered by the waiver and the measures and timelines of the agreed paediatric investigation plan (PIP)

1. Waiver

1.1. Condition

Treatment of type 1 diabetes mellitus

The waiver applies to:

- the paediatric population from birth to less than 2 years;
- film-coated tablet and age-appropriate oral formulation, oral use;
- on the grounds that the specific medicinal product is likely to be unsafe.

2. Paediatric investigation plan

2.1. Condition

Treatment of type 1 diabetes mellitus

2.1.1. Indication(s) targeted by the PIP

Adjunct to insulin for the treatment of type 1 diabetes mellitus to improve glycaemic control

2.1.2. Subset(s) of the paediatric population concerned by the paediatric development

From 2 years to less than 18 years of age

2.1.3. Pharmaceutical form(s)

Film-coated tablet

Age-appropriate formulation

2.1.4. Measures

Area	Number of measures	Description
Quality-related studies	1	Study 1 Development of an age appropriate formulation
Non-clinical studies	1	Study 2 Juvenile toxicity study, with specific focus on kidney, stomach and bone in juvenile rats (post-natal day 21)
Clinical studies	5	Study 3 Relative bioavailability study in adults to compare selected age appropriate formulation approach(es) with the solid oral dosage form used in adult/adolescent patients

		<p>Study 4</p> <p>Open-label, randomised, single-dose, parallel group, pharmacokinetics and pharmacodynamics study in the age group 6-<18years, comparing four different dose levels of empagliflozin in children with type 1 diabetes. (1245.76, P-EASE 1)</p> <p>Study 5</p> <p>Double-blind, randomised, placebo controlled, parallel group trial to evaluate efficacy and safety as adjunct to insulin therapy over 52 weeks in children and adolescents 6-<18years with type 1 diabetes mellitus. (1245.77, P-EASE 2)</p> <p>Study 6</p> <p>Open-label, randomised, single-dose, parallel group, pharmacokinetics and pharmacodynamics study in the age group 2-<6years, comparing different dose levels of empagliflozin in children with type 1 diabetes. (1245.163, P-EASE-3)</p> <p>Study 7</p> <p>Randomised, placebo-controlled crossover trial to evaluate efficacy and safety as adjunct to insulin therapy in children 2-<6years with type 1 diabetes mellitus. (1245.164, P-EASE-4)</p>
Extrapolation, modelling and simulation studies	1	<p>Study 8</p> <p>Exposure-response model to characterize the influence of empagliflozin exposure on change from baseline in 24 h urinary glucose excretion after a single drug administration of empagliflozin in paediatric patients</p>
Other studies	0	Not applicable
Other measures	0	Not applicable

3. Follow-up, completion and deferral of PIP

Concerns on potential long term safety/efficacy issues in relation to paediatric use:	Yes
Date of completion of the paediatric investigation plan:	By December 2028
Deferral for one or more measures contained in the paediatric investigation plan:	Yes