

Public Assessment Report

Scientific discussion

Pixxoscan

(gadobutrol (anhydrous))

SE/H/2208/01-02/DC

This module reflects the scientific discussion for the approval of Pixxoscan. The procedure was finalised on 2023-03-15. For information on changes after this date please refer to the module ‘Update’.

I. INTRODUCTION

Based on the review of the quality, safety and efficacy data, a marketing authorisation has been granted for Pixxoscan, 1,0 mmol/ml, solution for injection and solution for injection in pre-filled syringe.

The active substance is gadobutrol (anhydrous). A comprehensive description of the indication and posology is given in the SmPC.

For recommendations to the marketing authorisation not falling under Article 21a/22a/22 of Directive 2001/83/EC and conditions to the marketing authorisation pursuant to Article 21a/22a/ 22 of Directive 2001/83/EC to the marketing authorisation, please see section VI.

The application for Pixxoscan, 1,0 mmol/ml, solution for injection and solution for injection in pre-filled syringe, is a generic application submitted according to Article 10(1) of Directive 2001/83/EC. The applicant applies through the Decentralised Procedure with Sweden acting as reference member state (RMS) and AT, DE, ES, FR, IT, NO, PT, UK(NI) as concerned member states (CMS).

The reference medicinal product chosen for the purposes of establishing the expiry of the data protection period is Gadovist, 1,0 mmol/ml, solution for injection authorised in Germany since 2000, with Bayer Vital GmbH as marketing authorisation holder.

Potential similarity with orphan medicinal products

According to the application form and a check of the Community Register of orphan medicinal products there is no medicinal product designated as an orphan medicinal product for a condition relating to the indication proposed in this application.

II. QUALITY ASPECTS

II.1 Drug Substance

The structure of the drug substance has been adequately proven and its physico-chemical properties are sufficiently described.

The manufacture of the drug substance has been adequately described and satisfactory specifications have been provided for starting materials, reagents and solvents.

The drug substance specification includes relevant tests and the limits for impurities and degradation products have been justified. The analytical methods applied are suitably described and validated.

Stability studies confirm the retest period.

II.2 Medicinal Product

The medicinal product is formulated using excipients listed in section 6.1 in the Summary of Product Characteristics.

The manufacturing process has been sufficiently described and critical steps identified.

The tests and limits in the specification are considered appropriate to control the quality of the finished product in relation to its intended purpose.

Stability studies have been performed and data presented support the shelf life and special precautions for storage claimed in the Summary of Product Characteristics, sections 6.3 and 6.4.

III. NON-CLINICAL ASPECTS

Pharmacology/Pharmacokinetics/Toxicology

Pharmacodynamic, pharmacokinetic and toxicological properties of gadobutrol are well known. As gadobutrol is a widely used, well-known active substance, no further studies are required, and the applicant provides none. Overview based on literature review is, thus, appropriate.

Environmental Risk Assessment (ERA)

Since Pixxoscan is a generic product, it will not lead to an increased exposure to the environment. An environmental risk assessment is therefore not deemed necessary.

There are no objections to approval of Pixxoscan from a non-clinical point of view.

IV. CLINICAL ASPECTS

Pharmacokinetics

Biowaiver:

No bioequivalence study has been submitted. The applied product is to be administered as an aqueous intravenous solution containing the same active substance as the currently authorised product. The applied product also contains the same excipients in similar amounts as the reference product. There is a small difference in the amount of gadobutrol. The role of the excess ligand (butrol) is to chelate any free gadolinium. For this type of product, bioequivalence studies are generally not required according to the Guideline on the investigation of Bioequivalence (CPMP/EWP/QWP/1401/98 Rev. 1).

Pharmacodynamics/Clinical efficacy/Clinical safety

No new studies on pharmacodynamics, clinical efficacy or clinical safety have been submitted, which is acceptable.

Risk Management Plan

The MAH has submitted a risk management plan, in accordance with the requirements of Directive 2001/83/EC as amended, describing the pharmacovigilance activities and interventions designed to identify, characterise, prevent or minimise risks relating to Pixxoscan.

Safety specification

The MAH has submitted the version 0.1 RMP dated April 2021 and proposed the following summary safety concerns:

Table 1 Summary of safety concerns

Important identified risk	Nephrogenic systemic fibrosis (NSF)
Important potential risk	Adverse clinical effects of accumulation and retention of gadolinium in the brain Adverse clinical effects of accumulation and retention of gadolinium in organs and tissues other than brain tissues
Missing information	Safety of use in pregnancy and lactation Safety in children Clinical significance of gadolinium retention in the brain Clinical significance of gadolinium accumulation in organs and tissues other than brain tissues

Assessor's comments: The proposed RMP for Pixxoscan is in line with the originator Gadovist/Gadografil and endorsed by the RMS.

Pharmacovigilance Plan

The applicant has participated in a pharmacovigilance activity category I study (ALSGd64/ 001 mandated by the Committee for Medicinal Products for Human Use (CHMP). The study is completed, and the applicant commits to implement any related measures that are applicable to the originator. Routine pharmacovigilance is suggested, and no additional pharmacovigilance activities are proposed by the applicant, which is endorsed.

Risk minimisation measures

Routine risk minimisation is suggested, and no additional risk minimisation activities are proposed by the applicant, which is endorsed.

Summary of the RMP

The submitted Risk Management Plan, version 0.1 signed April 2021 is considered acceptable.

The MAH shall perform the required pharmacovigilance activities and interventions detailed in the agreed RMP presented in Module 1.8.2 of the Marketing Authorisation and any agreed subsequent updates of the RMP.

An updated RMP should be submitted:

- At the request of the RMS;
- Whenever the risk management system is modified, especially as the result of new information being received that may lead to a significant change to the benefit/risk profile or as the result of an important (pharmacovigilance or risk minimisation) milestone being reached.

If the dates for submission of a PSUR and the update of a RMP coincide, they can be submitted at the same time, but via different procedures.

V. USER CONSULTATION

A user consultation with target patient groups on the package information leaflet (PL) has been performed on the basis of a bridging report making reference to Gadovist, DE/H/3372/001- 002. The bridging report submitted by the applicant has been found acceptable.

VI. OVERALL CONCLUSION, BENEFIT/RISK ASSESSMENT AND RECOMMENDATION

The quality of the generic product, Pixxoscan, is found adequate. There are no objections to approval of Pixxoscan, from a non-clinical and clinical point of view. The product information is acceptable. The benefit/risk is considered positive, and the application is therefore recommended for approval.

List of recommendations not falling under Article 21a/22a/22 of Directive 2001/83/EC in case of a positive benefit risk assessment

N/A

List of conditions pursuant to Article 21a/22a or 22 of Directive 2001/83/EC

N/A

VII. APPROVAL

The decentralised procedure for Pixxoscan, 1,0 mmol/ml, solution for injection and solution for injection in pre-filled syringe was positively finalised on 2023-03-15.

Public Assessment Report – Update

Procedure number*	Scope	Product Information affected (Yes/No)	Date of end of procedure	Approval/non approval	Summary/Justification for refuse

*Only procedure qualifier, chronological number and grouping qualifier (when applicable)