

4 March 2015 EMA/COMP/853906/2011 Rev.1 Committee for Orphan Medicinal Products

# Public summary of opinion on orphan designation

Nanoliposomal irinotecan for the treatment of pancreatic cancer

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#### Disclaimer

Please note that revisions to the Public Summary of Opinion are purely administrative updates. Therefore, the scientific content of the document reflects the outcome of the Committee for Orphan Medicinal Products (COMP) at the time of designation and is not updated after first publication.

On 9 December 2011, orphan designation (EU/3/11/933) was granted by the European Commission to Merrimack Pharmaceuticals UK Limited, United Kingdom, for nanoliposomal irinotecan for the treatment of pancreatic cancer.

The sponsorship was transferred to Baxter Innovations GmbH, Austria, in December 2014.

# What is pancreatic cancer?

Pancreatic cancer is cancer of the pancreas, a small organ that lies behind the stomach. The pancreas has two functions: to produce a juice that helps with the digestion of food, and to produce hormones such as insulin. Due to the absence of symptoms in the early stages of pancreatic cancer, the majority of patients are diagnosed when the cancer has spread locally or to other parts of the body.

Pancreatic cancer is a very severe and life-threatening disease that is associated with shortened life expectancy.

## What is the estimated number of patients affected by the condition?

At the time of designation, pancreatic cancer affected approximately 1.4 in 10,000 people in the European Union (EU). This was equivalent to a total of around 71,000 people<sup>\*</sup>, and is below the ceiling for orphan designation, which is 5 people in 10,000. This is based on the information provided by the sponsor and the knowledge of the Committee for Orphan Medicinal Products (COMP).

<sup>\*</sup>Disclaimer: For the purpose of the designation, the number of patients affected by the condition is estimated and assessed on the basis of data from the European Union (EU 27), Norway, Iceland and Liechtenstein.

At the time of designation, this represented a population of 507,700,000 (Eurostat 2011).



#### What methods of treatment are available?

At the time of designation, several medicines were authorised in the EU for treating pancreatic cancer. The choice of treatment depended on several factors, including how far the disease had advanced. Treatments included surgery, radiotherapy (treatment with radiation) and chemotherapy (medicines to treat cancer).

The sponsor has provided sufficient information to show that nanoliposomal irinotecan might be of significant benefit for patients with pancreatic cancer because it is a new formulation of irinotecan (an anticancer medicine authorised for the treatment of colorectal cancer), which is expected to improve the treatment of patients with this condition. This assumption will need to be confirmed at the time of marketing authorisation, in order to maintain the orphan status.

# How is this medicine expected to work?

Irinotecan is an anticancer medicine that belongs to the group 'topoisomerase inhibitors'. It blocks an enzyme called topoisomerase I, which is involved in the division of cell DNA. When the enzyme is blocked, the DNA strands break. This prevents the cancer cells from dividing and they eventually die.

Free irinotecan is already authorised for the treatment of colorectal cancer. In this medicine, irinotecan is contained within tiny fat particles called 'nanoliposomes'. The nanoliposomes are expected to accumulate within the tumour and release the medicine slowly over time, thereby decreasing the rate at which the irinotecan is removed from the body and allowing it to act for longer.

# What is the stage of development of this medicine?

The effects of nanoliposomal irinotecan have been evaluated in experimental models.

At the time of submission of the application for orphan designation, clinical trials with nanoliposomal irinotecan in patients with pancreatic cancer were ongoing.

At the time of submission, nanoliposomal irinotecan was not authorised anywhere in the EU for the treatment of pancreatic cancer. Orphan designation of nanoliposomal irinotecan had been granted in United States of America for pancreatic cancer.

In accordance with Regulation (EC) No 141/2000 of 16 December 1999, the COMP adopted a positive opinion on 7 October 2011 recommending the granting of this designation.

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Opinions on orphan medicinal product designations are based on the following three criteria:

- the seriousness of the condition;
- the existence of alternative methods of diagnosis, prevention or treatment;
- either the rarity of the condition (affecting not more than 5 in 10,000 people in the EU) or insufficient returns on investment.

Designated orphan medicinal products are products that are still under investigation and are considered for orphan designation on the basis of potential activity. An orphan designation is not a marketing authorisation. As a consequence, demonstration of quality, safety and efficacy is necessary before a product can be granted a marketing authorisation.

## For more information

Sponsor's contact details:

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For contact details of patients' organisations whose activities are targeted at rare diseases see:

- Orphanet, a database containing information on rare diseases which includes a directory of patients' organisations registered in Europe.
- <u>European Organisation for Rare Diseases (EURORDIS)</u>, a non-governmental alliance of patient organisations and individuals active in the field of rare diseases.

# Translations of the active ingredient and indication in all official EU languages<sup>1</sup>, Norwegian and Icelandic

Language	Active ingredient	Indication
English	Nanoliposomal irinotecan	Treatment of pancreatic cancer
Bulgarian	Нанолипозомен иринотекан	Лечение на рак на панкреаса
Croatian	Nanoliposomalni irinotekan	Liječenje raka gušterače
Czech	Nanoliposomální irinotekan	Léčba karcinomu pankreatu
Danish	Nanoliposomal irinotecan	Behandling af pancreascancer
Dutch	Nanoliposomale irinotecan	Behandeling van pancreaskanker
Estonian	Nanoliposomaalne irinotekaan	Pankreasevähi ravi
Finnish	Nanoliposomaalinen irinotekaani	Haimasyövän hoito
French	Irinotécan nanoliposomal	Traitement du cancer pancréatique
German	In Nanoliposomen verkapseltes Irinotecan	Behandlung des Pankreaskarzinoms
Greek	Νανολιποσωμιακή ιρινοτεκάνη	Θεραπεία καρκίνου του παγκρέατος
Hungarian	Nano-liposzómális irinotecan	Hasnyálmirigyrák kezelése
Italian	Irinotecan nano-liposomiale	Trattamento del cancro pancreatico
Latvian	Nanoliposomālais irinotekāns	Aizkuņģa dziedzera vēža ārstēšana
Lithuanian	Nanoliposominis irinotekanas	Kasos vėžio gydymas
Maltese	Irinotecan nanoliposomali	Kura tal-kanċer tal-frixa
Polish	Irynotekan nanoliposomalny	Leczenie raka trzustki
Portuguese	Irinotecano nanoliposomal	Tratamento do carcinoma do pâncreas
Romanian	Irinotecan nanolipozomal	Tratamentul cancerului pancreatic
Slovak	Nanolipozómový irinotekan	Liečba rakoviny pankreasu
Slovenian	Nanoliposomski irinotekan	Zdravljenje raka trebušne slinavke
Spanish	Irinotecán nanoliposomal	Tratamiento del cáncer de páncreas
Swedish	Nanoliposomalt irinotekan	Behandling av pankreascancer
Norwegian	Nanoliposomalt irinotekan	Behandling av pankreascancer
Icelandic	Nanólípósómal írínótekan	Meðferð briskrabbameins

<sup>&</sup>lt;sup>1</sup> At the time of transfer of sponsorship