

27 May 2016 EMA/COMP/242793/2016 Committee for Orphan Medicinal Products

Public summary of opinion on orphan designation

Combination of 4-hydroxyandrostenedione, *Serenoa serrulata* fruit extract and alpha lipoic acid for the treatment of multiple symmetric lipomatosis

On 28 April 2016, orphan designation (EU/3/16/1646) was granted by the European Commission to Dr. Regenold GmbH Development-Regulatory-Market Access, Germany, for a combination of 4-hydroxyandrostenedione (also called formestane), *Serenoa serrulata* fruit extract and alpha lipoic acid (also called thioctic acid) for the treatment of multiple symmetric lipomatosis.

What is multiple symmetric lipomatosis?

Multiple symmetric lipomatosis is a disorder of the way in which parts of the body produce and store fat. As a result, large symmetrical masses of fat build up under the skin of the neck, shoulders and upper arms. These can result in disfigurement and symptoms such as nerve damage and pain, muscle cramps, increased heart rate, excessive sweating, impotence, reduced blood flow to the hands, deep ulcers and deformity of the fingers. The disease affects mostly men and is thought to be associated with alcohol abuse.

Multiple symmetric lipomatosis is long-term debilitating and life threatening, with a reduction in life-expectancy and an increased risk of sudden death.

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

At the time of designation, multiple symmetric lipomatosis affected approximately 0.3 in 10,000 people in the European Union (EU). This was equivalent to a total of around 15,000 people^{*}, 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).

What treatments are available?

At the time of designation, no satisfactory methods were authorised in the EU for the treatment of multiple symmetric lipomatosis. Patients were encouraged to abstain from alcohol. Surgery or

^{*}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 28), Norway, Iceland and Liechtenstein. This represents a population of 513,700,000 (Eurostat 2016).



liposuction were sometimes used to reduce the fat masses and provide temporary relief of symptoms caused by the fat pressing on other tissues. Some patients with early-stage disease were also given the medicine salbutamol.

How is this medicine expected to work?

The medicine is being developed as a cream that contains 3 active substances. The substance 4-hydroxyandrostenone and the extract of *Serenoa serrulata* (saw palmetto) fruit work in different ways to alter the balance of sex hormones in fat cells beneath the skin and reduce the build-up of fat. The antioxidant alpha lipoic acid helps to control substances called free radicals that can damage cells and may be involved in the disease process. By applying the cream to the affected areas, it is expected that the absorbed active substances will reduce the build-up of fat in multiple symmetric lipomatosis.

What is the stage of development of this medicine?

The effects of each component in this medicine have been evaluated in experimental models.

At the time of submission of the application for orphan designation, clinical trials with the medicine in patients with multiple symmetric lipomatosis were ongoing.

At the time of submission, the medicine was not authorised anywhere in the EU for multiple symmetric lipomatosis or designated as an orphan medicinal product elsewhere for this condition. The individual active substances have been approved separately in some EU member states for other uses.

In accordance with Regulation (EC) No 141/2000 of 16 December 1999, the COMP adopted a positive opinion on 23 March 2016 recommending the granting of this designation.

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:

Contact details of the current sponsor for this orphan designation can be found on EMA website, on the medicine's <u>rare disease designations page</u>.

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 languages¹, Norwegian and Icelandic

serrulata fruit extract and alpha lipoic acidlipomatosisBulgarianКомбинация от 4-хидрокси-андростендион, екстракт от плодовете на Serenoa serrulata и тиоктова киселинаЛечение на множествена симетрична липоматозаCroatianKombinacija 4-hidroksi-androstenediona, ekstrakta ploda Serenoa serrulate i alfa lipoične kiselineLiječenje multiple simetrične lipomatozeCzechKombinace 4-hydroxy-androstenedion, extrakt z plodů rostliny Serenoa serrulata a kyselina alfa lipoováLéčba mnohočetné symetricke lipomatozeDanishKombination af 4-hydroxy-androstendion, Serenoa serrulata frugt ekstrakt og alfa-liponsyreBehandling af multiple symmetrisk lipomatoseDutchCombinatie van 4-hydroxy-androsteendion, Serenoa serrulata vrucht extract en alfa liponzuurBehandeling van multiple symmetrische lipomatoseEstonianKombinatsioon 4-hüdroksüandrosteendioonist, Serenoa serrulata viljade ekstraktist ja ja alfallipoehappestMultiibelse sümmeetrilise lipomatoosi raviFinnish4-hydroksi-androstenedionin, sahapalmun hedelmäuutteen ja alfallipoilnihapon yhdistelmäMultippelin symmetrisen lipomatoosin hoitoFrenchAssociation de 4-hydroxy-androstenedione, extrait de fruits de Serenoa serrulata et acide alpha-lipoiqueTraitement de la lipomatose multiple symétriqueGermanKombination von 4-Hydroxy-Androstendion, Serenoa serrulata Fruchtextrakt und Alpha-LiponsäureBehandlung von multipler symmetrischer LipomatoseGreekΣυνδυασμός 4-υδροξυ- ανδροστενεδιόνης, εκχυλίσματος φρούτου Serenoa serrulata και άλφα λιποϊκού οξέοςΘεραπεία πολλαπλής συμμετρ λιπωμάτωσηςHungarian4-hidroxi-androszténdion, szabalpálma termés kivonat és alfa-liponsav kombinációja <th>anguage</th> <th>Active ingredient</th> <th>Indication</th>	anguage	Active ingredient	Indication
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ai trutto ai Serenoa serrulata e acido alta lipoico multipla simmetrica		Combinazione di 4-idrossi-androstenedione, estratto di frutto di <i>Serenoa serrulata</i> e acido alfa lipoico	Trattamento della lipomatosi multipla simmetrica
Latvian 4-hidroksi androstendiona, <i>Serenoa serrulata</i> augļu Multiplās simetriskās lipomato ekstrakta un alfalipoiskābes kombinācija ārstēšana			Multiplās simetriskās lipomatozes ārstēšana
Lithuanian 4-hidroksiandrostenediono, <i>Serenoa serrulata</i> vaisių Dauginės simetrinės lipomato ekstrakto ir alfa lipo rūgšties derinys gydymas		-	Dauginės simetrinės lipomatozės gydymas
Maltese 4-hydroxy-androstenedione, <i>Serenoa serrulata</i> fruit extract u alpha lipoic acid magħqudin ma' xulxin simmetrika			·
Polish Połączenie 4-hydroksy-androstenedionu, ekstraktu owoców palmy sabal i kwasu liponowego tłuszczakowatość	olish	Połączenie 4-hydroksy-androstenedionu, ekstraktu	
Portuguese Associação de 4-hidroxiandrostenediona, <i>Serenoa</i> Tratamento da lipomatose repens e ácido lipóico simétrica múltipla	ortuguese	Associação de 4-hidroxiandrostenediona, Serenoa	Tratamento da lipomatose

¹ At the time of designation

Language	Active ingredient	Indication
Romanian	Combinație de 4-hidroxi-androstendionă, extract de	Tratamentul lipomatozei
	fructe de Serrenoa serulata și acid alfa lipoic	simetrice multiple
Slovak	Kombinácia 4-hydroxy-androstenedion, extrakt z	Liečba mnohopočetnej
	plodov serenoy a kyselina lipoová	symetrickej lipomatózy
Slovenian	Kombinacija 4-hidroksi-androstendiona, ekstrakta	Zdravljenje multiple simetrične
	sadeža žagastolistne palme in alfa lipoične kisline	lipomatoze
Spanish	Combinación de 4-hidroxi-androstenediona, extracto	Tratamiento de la lipomatosis
	del fruto de Serenoa serrulata y ácido alfa lipóico	simétrica múltiple
Swedish	Kombination av 4-hydroxi-androstendion, Serenoa	Behandling av multipel
	serrulata fruktextrakt och alfa.liponsyra	symmetrisk lipomatos
Norwegian	Kombinasjon av 4-hydroksy-androstenedion, ekstrakt	Behandling av multippel
	av Serenoa serrulata frukt og alfa-liponsyre	symmetrisk lipomatose
Icelandic	Blanda af 4-hýdroxý-andróstendíon, þykkni úr ávexti	Til meðferðar við samhverfu
	Freyspálma og alfa-lípóínsýra	fituhnútageri