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COMMITTEE ON HERBAL MEDICINAL PRODUCTS (HMPC)

FINAL

COMMUNITY HERBAL MONOGRAPH ON HYPERICUM PERFORATUM L., HERBA (WELL-ESTABLISHED MEDICINAL USE)

This document was valid from 12 November 2009 until November 2022. It is now superseded by a <u>new version</u> adopted by the HMPC on 23 November 2022 and published on the EMA website.

DISCUSSION IN WORKING PARTY ON COMMUNITY MONOGRAPHS AND COMMUNITY LIST (MLWP)	July 2008 September 2008
	November 2008
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KEYWORDS	Herbal medicinal products; HMPC; Community herbal monographs; well-
	established medicinal use; <i>Hypericum perforatum</i> L.; Hyperici herba; St.
	John's wort

COMMUNITY HERBAL MONOGRAPH ON HYPERICUM PERFORATUM L., HERBA (WELL-ESTABLISHED MEDICINAL USE)

1. NAME OF THE MEDICINAL PRODUCT

To be specified for the individual finished product.

QUALITATIVE AND QUANTITATIVE COMPOSITION $^{1,\,2}$ 2.

Well-established use	<u>Traditional use</u>
With regard to the marketing authorisation application of Article 10(a) of Directive 2001/83/EC as amended	With regard to the registration application of Article 16d(1) of Directive 2001/83/EC as amended
Hypericum perforatum L., herba (St. John's Wort)	See document EMEA/HMPC/745582/2009
i) Herbal substance Not applicable	
ii) Herbal preparations ³ A) Dry extract (DER 3-7:1), extraction solvent methanol (80% v/v)	
B) Dry extract (DER 3-6:1), extraction solvent ethanol (80% v/v)	
C) Dry extract (DER 2.5-8:1), extraction solvent ethanol (50-68% v/v) ⁴	

3. PHARMACEUTICAL FORM

Well-established use	Traditional use
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YY 1 1 1 1 1 1 C C 1	
Herbal preparation in solid dosage forms for oral	
use.	
The about continuity and the should be described by	
The pharmaceutical form should be described by	
the European Pharmacopoeia full standard term.	
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CLINICAL PARTICULARS

Therapeutic indications 4.1.

Well-established use	<u>Traditional use</u>
Indication 1	
Herbal preparations A, B:	
Herbal medicinal product for the treatment of	
mild to moderate depressive episodes (according	
to ICD-10).	

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¹ The material complies with the Ph. Eur. monograph (ref. 01/2008:1438)
² The declaraction of the active substance(s) for an individual finished product should be in accordance with the relevant herbal quality

The herbal preparations comply with the Ph. Eur. monograph (ref. 07/2008: 1874)

⁴ A narrow range of the DER to be specified for each product

Indication 2

Herbal preparation C:

Herbal medicinal product for the short term treatment of symptoms in mild depressive disorders.

4.2. Posology and method of administration

Well-established use

Posology

Adults and elderly Herbal preparation A:

Single dose: 300-600 mg

Dosage frequency: 1-3 times daily

Daily dose: 600-1800 mg

Herbal preparation B:

Single dose: 900 mg

Dosage frequency: 1 single daily dose

Daily dose: 900 mg

Herbal preparation C:

612 mg, once daily

or

Single dose: 250-650 mg

Dosage frequency: 2-3 times daily

Daily dose: 500-1200 mg

Children, adolescents

The use in children and adolescents under 18 years of age is not recommended (see section 4.4 'Special warnings and precautions for use').

Duration of use

Indication 1

The onset of the effect can be expected within 4 weeks of treatment. If the symptoms persist during the use of the medicinal product, a doctor should be consulted.

Indication 2

6 weeks.

The onset of the effect can be expected within 4 weeks of treatment. If the symptoms persist during the use of the medicinal product, a doctor should be consulted.

Method of administration

Oral use.

Traditional use

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4.3. Contraindications

Well-established use	<u>Traditional use</u>
Hypersensitivity to the active substance.	
Concomitant use with cyclosporine, tacrolimus for systemic use, amprenavir, indinavir and other protease inhibitors, irinotecan and warfarin (see section 4.5 'Interactions with other medicinal products and other forms of interaction').	

4.4. Special warnings and precautions for use

Well-established use	<u>Traditional use</u>
Indications 1 and 2	
During the treatment intense UV-exposure should	
be avoided.	
Cinco no sufficient data and qualible the was in	
Since no sufficient data are available, the use in	
children and adolescents under 18 years of age is	
not recommended.	

4.5. Interactions with other medicinal products and other forms of interaction

Hypericum dry extract induces the activity of CYP3A4, CYP2C9, CYP2C19 P-glycoprotein. The concomitant use systemic cyclosporine, tacrolimus for use. amprenavir, indinavir and other protease inhibitors. irinotecan and warfarin is section contraindicated 4.3. (see 'Contraindications').

Well-established use

Special care should be taken in case of concomitant use of all drug substances the metabolism of which is influenced by CYP3A4, CYP2C9, CYP2C19 or P-glycoprotein (e.g., amitriptyline, fexofenadine, benzodiazepines, methadone, simvastatin, digoxin, finasteride), because a reduction of plasma concentrations is possible.

The reduction of plasma concentrations of oral contraceptives may lead to increased intermenstrual bleeding and reduced safety in birth control. Women using oral contraceptives should take additional contraceptive measures.

Prior to elective surgery possible interactions with products used during general and regional anaesthesia should be identified. If necessary the herbal medicinal product should be discontinued.

Traditional use

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The elevated enzyme activity returns within 1 week after cessation to normal level.	
Hypericum dry extract may contribute to serotonergic effects when combined with antidepressants such as serotonin reuptake inhibitors (e.g. sertraline, paroxetine, nefazodone), buspirone or with triptans.	
Patients taking other medicines on prescription should consult a doctor or pharmacist before taking Hypericum.	

4.6. Pregnancy and lactation

Well-established use	<u>Traditional use</u>	
Animal studies have shown equivocal results. The		
potential risk for humans is unknown. In the		
absence of sufficient clinical data, the use during		
pregnancy and lactation is not recommended.		

4.7. Effects on ability to drive and use machines

Well-established use	<u>Traditional use</u>
No adequate studies on the effect on the ability to	
drive and use machines have been performed.	

4.8. Undesirable effects

Well-established use	Traditional use
Gastrointestinal disorders, allergic skin reactions,	
fatigue and restlessness may occur. The frequency	
is not known.	
Fair-skinned individuals may react with	
intensified sunburn-like symptoms under intense	
sunlight.	
If other adverse reactions not mentioned above	
occur, a doctor or a pharmacist should be	
consulted.	

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4.9. Overdose

Well-established use

After the intake of up to 4.5 g dry extract per day for 2 weeks and additionally 15 g dry extract just before hospitalisation seizures and confusion have been reported.

After ingestion of massive overdoses, the patient should be protected from sunlight and other UV-light sources for 1-2 weeks.

Traditional use

5. PHARMACOLOGICAL PROPERTIES

5.1. Pharmacodynamic properties

Well-established use

Pharmacotherapeutic group: Other antidepressants ATC code: N06AX

Hypericum dry extract inhibits the synaptosomal uptake of the neurotransmitters noradrenaline, serotonine and dopamine. Subchronic treatment causes a down-regulation of β-adrenergic receptors; it changes the behaviour of animals in several antidepressant models (e.g., forced to swimming test) similarly synthetic antidepressants. Napthodianthrones (e.g. hypericin, pseudohypericin), phloroglucin derivatives (e.g. hyperforin) and flavonoids contribute to the activity.

Traditional use

Not required as per Article 16c(1)(a)(iii) of Directive 2001/83/EC as amended.

5.2. Pharmacokinetic properties

Well-established use

The absorption of hypericin is delayed and starts about 2 hours after administration. The elimination half-life of hypericin is about 20 hours, the mean residence time about 30 hours. Maximum hyperforin levels are reached about 3-4 hours after administration; no accumulation could be detected. Hyperforin and the flavonoid miquelianin can cross the blood-brain-barrier. Hyperforin induces the activity of the metabolic enzymes CYP3A4, CYP2C9, CYP2C19 and PGP dose-dependently via activation of the PXR system. Therefore the elimination of other drug substances may be accelerated, resulting in decreased plasma concentrations.

Traditional use

Not required as per Article 16c(1)(a)(iii) of Directive 2001/83/EC as amended.

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5.3. Preclinical safety data

Well-established use

Studies on acute toxicity and repeated dose toxicity did not show signs of toxic effects.

The weak positive results of an ethanolic extract in the AMES-test (Salmonella typhimurium TA 98 and TA 100, with and without metabolic activation) could be assigned to quercetin and are irrelevant to human safety. No signs of mutagenicity could be detected in further in-vitro and in-vivo test systems.

Tests on reproductive toxicity revealed equivocal results.

Tests on the carcinogenic potential have not been published.

Phototoxicity:

After oral application of dosages of 1800 mg of an extract per day for 15 days the skin sensitivy against UVA was increased, and the minimum dose for pigmentation was significantly reduced. In the recommended dosage, no signs of phototoxicity are reported.

Traditional use

Not required as per Article 16c(1)(a)(iii) of Directive 2001/83/EC as amended, unless necessary for the safe use of the product.

6. PHARMACEUTICAL PARTICULARS

Well-established use	<u>Traditional use</u>
Extracts should be quantified with respect to hypericin ⁵ . The amounts of hyperforin and of	
flavonoids should be declared.	

7. DATE OF COMPILATION/LAST REVISION

12 November 2009

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⁵ Ph. Eur. monograph (ref. 01/2008:0765) Extracts.