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COMMITEE ON HERBAL MEDICINAL PRODUCTS (HMPC)

DRAFT

COMMUNITY HERBAL MONOGRAPH ON VALERIAN ROOT (VALERIANA, RADIX)

DISCUSSION IN THE DRAFTING GROUP ON SAFETY & EFFICACY	May 2005 June 2005 September 2005
ADOPTION BY HMPC FOR RELEASE FOR CONSULTATION	September 2005
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KEYWORDS	Herbal medicinal products; HMPC; Community herbal monograph; well-	
	established use; traditional use.	

COMMUNITY HERBAL MONOGRAPH ON VALERIAN ROOT (VALERIANA, RADIX)

1. NAME OF THE MEDICINAL PRODUCT

To be specified for the individual finished product.

2. QUALITATIVE AND QUANTITATIVE COMPOSITION¹

Well-established use	<u>Traditional use</u>
With regard to the marketing authorisation application of Article 10(1)(a)(ii) of Directive 2001/83/EC as amended	With regard to the registration application of Article 16d(1) of Directive 2001/83/EC as amended
Valerian root ² preparations	Herbal preparations
- Extract prepared with water, ethanol/water (ethanol max. 70 % V/V) - Tinctures (1:5, ethanol max. 70 % V/V)	 Dried Valerian root² Fresh plant juice Valerian root oil

3. PHARMACEUTICAL FORM

Well-established use	<u>Traditional use</u>
Herbal preparation in solid or liquid dosage forms.	Herbal preparation in solid or liquid dosage forms.
The pharmaceutical form should be described	The pharmaceutical form should be described
according to the standard terms published by the	according to the standard terms published by the
European Pharmacopeia.	European Pharmacopeia.

4. CLINICAL PARTICULARS

4.1. Therapeutic indications

Well-established use	<u>Traditional use</u>
1	Traditional herbal medicinal product for support of mental relaxation and to aid natural sleep exclusively based on long-standing use.

4.2 Posology and method of administration

Well-established use	Traditional use
Posology	Posology
Oral use.	Oral use.

¹ The declaration of all active substances should be done in accordance with the 'Guideline on quality of herbal medicinal products / traditional herbal medicinal products' (CPMP/QWP/2819/00 Rev.1, EMEA/CVMP/814/00 Rev.1).

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² The herbal substance complies with the European Pharmacopoeia (monograph reference 01/2005:0453).

Adolescents over 12 years of age, adults, elderly

Single dose:

Tincture (1:5, ethanol max. 70 % V/V) or extracts with water, ethanol/water (max. 70 % V/V) equivalent to 2 to 3 g of the drug.

For nervous tension up to 3 times daily.

As an aid to sleep, a single dose half to one hour before bedtime with an earlier dose during the For relaxation up to 3 times daily. evening if necessary.

Maximum daily dose: 4 single doses.

Method of administration

No special advice.

Duration of use

Because of its gradual onset of efficacy Valerian root is not suitable for acute interventional 2 – 4 weeks is recommended. treatment of stress symptoms or reactive sleep disturbances. To achieve an optimal treatment effect, continued use over 2 - 4 weeks is recommended.

Adolescents over 12 years of age, adults, elderly

Single dose:

- 0.3 to 1 g dried Valerian root (e.g. as powdered drug or as herbal tea, according to British Herbal Pharmacopoeia, 1976)
- 15 ml of fresh plant juice
- 15 mg of Valerian root oil

To aid sleep, a single dose half to one hour before bedtime with an earlier dose during the evening if necessary.

Maximum daily dose: 4 single doses

Method of administration

No special advice.

Duration of use

To achieve optimal efficacy, continued use over

4.3. **Contraindications**

Well-established use	<u>Traditional use</u>
Patients with known hypersensitivity to Valerian should not use Valerian root preparations.	Patients with known hypersensitivity to Valerian should not use Valerian root preparations.

4.4. Special warnings and precautions for use

Well-established use	<u>Traditional use</u>
Because there is no experience available, use of this product is not recommended in children below the age of 12 years.	Because there is no experience available, use of this product is not recommended in children below the age of 12 years. If symptoms persist during the use of the medicinal product or if adverse effects not mentioned in the package leaflet occur, a doctor or a qualified health care practitioner should be consulted.

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

Well-established use	<u>Traditional use</u>
Only limited data on pharmacological interactions	Only limited data on pharmacological interactions
with other medicinal products are available.	
Clinically relevant interaction with drugs	Clinically relevant interaction with drugs
metabolised by the CYP 2D6 or CYP 3A4	metabolised by the CYP 2D6 or CYP 3A4
pathway is unlikely.	pathway is unlikely.

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An additive effect with barbiturates is possible and could result in excessive sedation. Comedication with barbiturates is therefore not recommended.

Since additive effects with other sedatives cannot be excluded, co-medication is not recommended as a general precaution.

The effect of Valerian preparations may be potentiated by alcohol. Excessive concomitant consumption of alcohol should therefore be avoided.

An additive effect with barbiturates is possible and could result in excessive sedation. Comedication with barbiturates is therefore not recommended

Since additive effects with other sedatives cannot be excluded, co-medication is not recommended as a general precaution.

The effect of Valerian preparations may be potentiated by alcohol. Excessive concomitant consumption of alcohol should therefore be avoided.

4.6. Pregnancy and lactation

Well-established use

been established definitely. No adverse effects have been reported from the common use of Valerian root as a medicinal product. As a precautionary measure, because of lack of data, recommended.

Traditional use

Safety during pregnancy and lactation has not Safety during pregnancy and lactation has not been established definitely. No adverse effects have been reported from the common use of Valerian root as a medicinal product. As a precautionary measure, because of lack of data, use during pregnancy and lactation is not 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>
[Preparation] should not be taken up to 2 hours before driving or operating machinery.	[Preparation] should not be taken up to 2 hours before driving or operating machinery.

4.8. **Undesirable effects**

Well-established use	<u>Traditional use</u>
Very rarely (≤ 1:10000³) gastro-intestinal	Very rarely $(\leq 1:10000^4)$ gastro-intestinal
symptoms (e.g. nausea, abdominal cramps) may	symptoms (e.g. nausea, abdominal cramps) may
occur after ingestion of Valerian root	occur after ingestion of Valerian root
preparations.	preparations.

4.9. Overdose

Well-established use

Valerian root at a dose of approximately 20 g caused benign symptoms (fatigue, abdominal cramp, chest tightness, lightheadedness, hand tremor and mydriasis), which disappeared within 24 hours. If symptoms arise, treatment should be supportive.

consumption (daily vears

Traditional use

Valerian root at a dose of approximately 20 g caused benign symptoms (fatigue, abdominal cramp, chest tightness, lightheadedness, hand tremor and mydriasis), which disappeared within 24 hours. If symptoms arise, treatment should be supportive.

After intake of very high doses of Valerian root After intake of very high doses of Valerian root over several vears (daily consumption corresponding to approximately 30 g of the drug) corresponding to approximately 30 g of the drug) withdrawal symptoms (delirium) have been withdrawal symptoms (delirium) have been

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³ data deriving from spontaneous reports

⁴ data deriving from spontaneous reports

reported.	reported.
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5. PHARMACOLOGICAL PROPERTIES

5.1 Pharmacodynamic properties

Well-established use

Valerian

Hypnotics and sedatives, ATC code: N05C M09	
The sedative and anxiolytic effects of preparations	
of Valerian root, which have long been recognised	
empirically, have been confirmed in preclinical	
trials and controlled clinical studies. Orally	
administered dry extracts of Valerian root	
prepared with water or water/ethanol up to 70 %	
ethanol (V/V) in the recommended dosage have	
been shown to improve sleep latency, sleep	
quality and daytime wellbeing in man. These	
effects cannot be attributed with certainty to any	
known constituents. Several mechanisms of action	
possibly contributing to the clinical effect have	

been identified for diverse constituents of

flavonoids) and include interactions with the GABA-system, agonism at the A1 adenosine receptor and binding to the 5-HT1A receptor.

(sesquiterpenoids,

Traditional use

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

5.2 Pharmacokinetic properties

root

Well-established use	<u>Traditional use</u>
No pharmacokinetic data available.	Not required as per Article 16c(1)(a)(iii) of Directive 2001/83/EC as amended.

lignans,

5.3 Preclinical safety data⁵

Well-established use	Traditional use
	Extracts with ethanol and the essential oil of Valerian root have shown low toxicity in rodents
	during acute tests and from repeated dose toxicity
over periods of $4 - 8$ weeks.	over periods of 4 – 8 weeks.

6. DATE OF COMPILATION

20 September 2005

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⁵ In case of Valerian root used as powder, the total exposure to valepotriates and baldrinals should not exceed the maximum exposure with herbal tea. Alkylating and cytotoxic properties of valepotriates and baldrinals are normally not relevant for finished products because valepotriates decompose rapidly and only traces of valepotriates or their degradation products baldrinals are found. Where the applicant cannot demonstrate the absence of valepotriates in the finished product, he has to provide data on determination of the threshold of toxicological concern compatible with the safe use of the preparation.