

VALERIAN (Valeriana officinalis) root

COMMON INDICATIONS:

- Relaxation and anxiety relief
- Short-term insomnia relief

General Comments:

Since the second century A.D., Valerian has been used to ease insomnia, anxiety, and nervous restlessness. The name is believed to come from the Latin word "valere" meaning to be healthy or strong. Hippocrates described valerian's therapeutic uses, and in the 2nd century, Galen prescribed valerian for insomnia. The genus Valerian includes over 250 species, but V. officinalis is the species most often used in dietary supplements. Valerian is often combined with other sedative herbs, including hops (Humulus lupulus) and passionflower (Passiflora incarnate).

Benefits & Mechanism of Action:

Relaxation and Anxiolytic Effects

The usefulness of valerian is reported to be due to several principal components, including valepotriates, valeric acid and pungent oils, which have a relaxing and anxiolytic effect on the central nervous system, as well as a relaxing effect on the smooth muscles of the GI tract. Scientists believe valepotriates and valeric acid bind gamma-aminobutyric acid (GABA) receptor sites similar to benzodiazepines, thus the similarity in therapeutic effects (Yuan et al, 2004).

Insomnia Treatment

In addition to a calming and anxiolytic effect, valerian is also often used to treat insomnia. Benzodiazepines are often used to treat both anxiety and insomnia; however, they often leave patients feeling "hungover" the next day. Valerian has been reported to have sedative effects similar to those of benzodiazepines without inducing languor the next day. In one study, 100 women aged 50-60 years who complained of sleep disorders were studied and Valerian was found to significantly reduce levels of sleep disorder compared to placebo (Taavoni et al, 2013).

DOSE:

- 200-500mg of a standardized extract, 1-2 hours before bedtime or as needed
- 30- 60 drops of a liquid extract (1:4w/v) in water 1 hour before bedtime or as needed may be used.

PHONE: (513) 366-2100 FAX: (513) 351-3800 WEB: www.hippevo.com

• Valerian supplements should be used for the <u>temporary</u> relief of insomnia only.

STANDARDIZATION:

• Valerian supplements should be standardized to contain 0.4-1% valerenic or valeric acids.

CAUTIONS & SIDE EFFECTS:

- Valerian has been reported to be safe in recommended doses.
- Use with caution if pregnant or breastfeeding as the safety of valerian has not been studied in these populations.
- Do not use if there is an allergy to any component of this dietary supplement.
- Use with caution when driving an automobile or heavy machinery.
- Caution should be used when taking sedative medications concomitantly with valerian.
 These include: Antihistamines, Anticonvulsants, such as phenytoin (Dilantin) and valproic acid (Depakote), Barbiturates, Benzodiazepines, such as alprazolam (Xanax) and diazepam (Valium), drugs to treat insomnia, such as zolpidem (Ambien), zaleplon (Sonata), eszopiclone (Lunesta), and ramelteon (Rozerem), Tricyclic antidepressants, such as amitriptyline (Elavil), and Alcohol.

References:

ANXIOLYTIC

- 1. Andreatini R, Sartori VA, Seabra ML, et al. Effect of valepotriates (valerian extract) in generalized anxiety disorder: a randomized placebo-controlled pilot study. Phytother Res 2002;16(7):650-654.
- 2. Awad R, Levac D, Cybulska P, Merali Z, Trudeau VL, Arnason JT. Effects of traditionally used anxiolytic botanicals on enzymes of the gamma-aminobutyric acid (GABA) system. Can J Physiol Pharmacol. 2007 Sep;85(9):933-42.
- 3. Modabbernia A, Akhondzadeh S. Saffron, Passionflower, Valerian and Sage for Mental Health. Psychiatric Clinics of North America. Philadelphia, PA:W. B. Saunders Company; 2013; 36(1).
- 4. Yuan CS, Mehendale S, Xiao Y, et al. The gamma-aminobutyric acidergic effects of valerian and valerenic acid on rat brainstem neuronal activity. Anesth Analg 2004;98(2):353-8, table.

TREATMENT OF INSOMNIA

5. Donath F, Quispe S, Diefenbach K, et al. Critical evaluation of the effect of valerian extract

PHONE: (513) 366-2100 FAX: (513) 351-3800 WEB: www.hippevo.com

- on sleep structure and sleep quality. Pharmacopsychiatry 2000;33(2):47-53.
- 6. Taavoni S, Nazem Ekbatani N, Haghani H. Valerian/lemon balm use for sleep disorders during menopause. Complement Ther Clin Pract. 2013;19:193-6.
- 7. Ziegler G, Ploch M, Miettinen-Baumann A, et al. Efficacy and tolerability of valerian extract LI 156 compared with oxazepam in the treatment of non-organic insomnia--a randomized, double-blind, comparative clinical study. Eur J Med Res 2002;7(11):480-486.

PHONE: (513) 366-2100 FAX: (513) 351-3800 WEB: www.hippevo.com