

NEW ZEALAND DATA SHEET

1. PRODUCT NAME (strength pharmaceutical form)

Aspen Dexamfetamine, Tablet, 5mg

2. QUALITATIVE AND QUANTITATIVE COMPOSITION

Name and strength of the active substance

Dexamfetamine sulfate 5mg

Excipient(s) with known effect

For the full list of excipients, see section 6.1.

3. PHARMACEUTICAL FORM

Oral – tablet

Presentations

White, round flat tablet with bevelled edges with “D5” imprinted and scored on one side and plain on the other

4. CLINICAL PARTICULARS

4.1 Therapeutic indications

For the treatment of well-established and proven narcolepsy. It is also indicated for children with refractory hyperkinetic states under the supervision of a physician specialising in child psychiatry.

4.2 Dose and method of administration

For narcolepsy:

Adults:

Oral, 5 to 20 mg a day in divided doses as needed and tolerated. The usual starting dose is 5mg a day, given in divided doses. Doses may be increased if necessary by 5mg a day at weekly intervals to a suggested maximum of 20mg a day.

Elderly:

Start with 5mg a day, and increase by increments of 5 mg at weekly intervals to a suggested maximum of 20mg a day.

Children:

- *Children up to 6 years of age:*
Dosage has not been established.
- *Children 6 to 12 years of age*

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Oral, 5mg a day, the dosage being increased by 5 mg a day at one-week intervals until the desired response is obtained or until the adult dose is reached.

For attention-deficit hyperactivity disorders:

Children:

- *Children up to 3 years of age:*
Use is not recommended
- *Children 3 to 5 years of age*
Oral, 2.5mg once a day, the dosage being increased by 2.5mg a day at one-week intervals until the desired response is obtained.
- *Children 6 years of age and over*
Oral, 5mg one or two times a day, the dosage being increased by 5mg a day at one-week intervals until the desired response is obtained.

4.3 Contraindications

Dexamfetamine sulfate tablets are contraindicated in patients with known hypersensitivity to dexamfetamine or other amphetamine derivatives or any of the excipients.

Do not use in patients with symptomatic cardiovascular disease, structural cardiac abnormalities and/or moderate or severe hypertensive disease.

Do not use in patients with advanced arteriosclerosis.

Do not use in patients during or for 14 days after treatment with MAO inhibitor.

Do not use in patients with a history of drug abuse or alcohol abuse.

Do not use in patients with hyperthyroidism, glaucoma, porphyria or hyperexcitability.

Do not use in patients with Gilles de la Tourette syndrome or similar dystonias.

Dexamfetamine tablets contain lactose. Patients with rare hereditary problems of galactose intolerance, the Lapp lactase deficiency or glucose-galactose malabsorption should not take this medicine.

4.4 Special warnings and precautions for use

Use with caution in patients on guanethidine and patients with mild hypertension or a family history of dystonias. If tics develop, discontinue treatment with dexamfetamine. Dexamfetamine is likely to reduce the convulsant threshold therefore caution is advised in patients with epilepsy. Height and weight should be carefully monitored in children

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as growth retardation may occur. Children who are not gaining weight as expected should have their treatment interrupted temporarily.

Caution should be used when administering dexamfetamine to patients with impaired kidney function or unstable personality.

Drug dependence, with consumption of increasing doses to levels many times those recommended, may occur as tolerance develops. At such levels, a psychosis which may be clinically indistinguishable from schizophrenia can occur.

Treatment should be stopped gradually since abrupt cessation may produce extreme fatigue and mental depression.

Cardiomyopathy has been reported with chronic amphetamine use.

Due to the potential decreased appetite associated with dexamfetamine use, caution is advised in the presence of anorexia nervosa.

Pre-existing structural cardiac abnormalities:

Sudden death has been reported in association with the use of stimulants of the central nervous system at usual doses in children with structural cardiac abnormalities.

Although some structural cardiac abnormalities alone may carry an increased risk of sudden death, stimulant products are not recommended in children, adolescents, or adults with known structural cardiac abnormalities (see Contraindications).

Blood pressure should be monitored at appropriate intervals in all patients taking dexamfetamine, especially those with hypertension.

Psychiatric adverse events:

- Administration of stimulants may exacerbate symptoms of behaviour disturbance and thought disorders in patients with a pre-existing psychotic disorder.
- Particular care should be taken in using stimulants to treat ADHD in patients with comorbid bipolar disorder because of concern for possible induction of a mixed/manic episode in such patients. Prior to initiating treatment with a stimulant, patients with comorbid depressive symptoms should be adequately screened to determine if they are at risk for bipolar disorder; such screening should include a detailed psychiatric history, including a family history of suicide, bipolar disorder and depression.
- Treatment emergent psychotic or manic symptoms, e.g. hallucinations, delusional thinking or mania in children or adolescents without a prior history of psychotic illness or mania can be caused by stimulants at usual doses. If such symptoms occur, consideration should be given to a possible causal role of the stimulant and discontinuation of treatment may be appropriate.

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- Patients beginning treatment with stimulants for ADHD should be monitored for the appearance, or worsening of, aggressive behaviour or hostility.

Use with caution in patients sensitive to amphetamines and other sympathomimetics.

Geriatrics:

No data is available on relationship of age to the effects of dexamfetamine in geriatric patients.

4.5 Interaction with other medicines and other forms of interaction

Adrenoreceptor blocking agents (e.g. propranolol), lithium and α methyltyrosine may antagonise the effects of dexamfetamine. Disulfiram may inhibit metabolism and excretion.

The concurrent use of tricyclic antidepressants may increase the risk of cardiovascular side effects.

Concurrent use of MAOI's or use within the preceding 14 days may precipitate a hypertensive crisis.

Concurrent use of beta-blockers may result in severe hypertension and dexamfetamine may result in diminished effect of other anti-hypertensives such as guanethidine.

Phenothiazines may inhibit the actions of dexamfetamine.

Amphetamines may delay the absorption of ethosuximide, phenobarbital and phenytoin.

Acute dystonia has been noted with concurrent administration of haloperidol. Haloperidol blocks dopamine and norepinephrine re-uptake, thus inhibiting the central stimulant effects of amphetamines.

The analgesic effect of morphine may be increased and its respiratory depressant effects decreased with concurrent use of morphine and dexamfetamine.

Amphetamines potentiate the analgesic effects of meperidine.

Concomitant administration of clonidine and dexamfetamine may result in an increased duration of action of dexamfetamine.

Gastrointestinal acidifying agents (guanethidine, reserpine, glutamic acid HCl, ascorbic acid, fruit juices, etc.) lower absorption of dexamfetamine. Urinary acidifying agents (ammonium chloride, sodium acid phosphate, etc.) increase urinary excretion of dexamfetamine. Both groups of agents lower blood levels and efficacy of

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dexamfetamine.

Gastrointestinal alkalizing agents (sodium bicarbonate, etc) increase the absorption of amphetamines. Urinary alkalizing agents (acetazolamide, some thiazides) increase the concentration of the non-ionized species of the amphetamine molecule, thereby decreasing urinary excretion. Both groups of agents increase blood levels and efficacy of amphetamines.

Alcohol may exacerbate the CNS adverse reactions of psychoactive drugs, including dexamfetamine. It is therefore advisable for patients to abstain from alcohol during treatment.

Chlorpromazine blocks dopamine and norepinephrine re-uptake, thus inhibiting the central stimulant effects of amphetamines, and can be used to treat amphetamine poisoning.

4.6 Fertility, pregnancy and lactation

It should be avoided in pregnant women or breast feeding mothers.

Pregnancy: Use of dexamfetamine sulfate during pregnancy may be associated with an increased risk of congenital malformations, especially in the cardiovascular system and biliary tract. Reproductive studies in rodents have suggested both an embryotoxic and a teratogenic potential when amphetamines were administered and retrospective evidence of certain significance in man has suggested a similar possibility. Dexamfetamine is contraindicated during pregnancy.

Nursing mothers: Dexamfetamine is passed into breast milk. Because of the potential for adverse reactions in nursing infants from dexamfetamine, a decision should be made whether to discontinue nursing or discontinue the drug, taking into account the importance of the drug to the mother.

Paediatrics: Prolonged administration of dexamfetamine sulfate to children may inhibit growth. Height and weight in children should be monitored. Psychotic children may experience exacerbation of symptoms of behaviour disturbance and thought disorder. It provokes or exacerbates motor and vocal tics and Tourette's syndrome, necessitating clinical evaluation before administration of dexamfetamine sulfate.

4.7 Effects on ability to drive and use machines

Dexamfetamine may affect ability to drive or operate machinery.

4.8 Undesirable effects

Cardiac disorders: cardiomyopathy, myocardial infarction, palpitations, tachycardia

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Eye disorders: mydriasis, visual disturbance

Gastrointestinal disorders: abdominal cramps, colitis ischaemic, diarrhoea, dry mouth, nausea.

General disorders and administration site conditions: chest pain, death due to cardiovascular collapse, growth retardation, hyperpyrexia, hypersensitivity including angioedema and anaphylaxis, sudden death.

Investigations: blood pressure decreased, blood pressure increased

Metabolism and nutrition disorders: acidosis, anorexia, weight loss.

Musculoskeletal and connective tissue disorders: rhabdomyolysis

Nervous system disorders: ataxia, choreoathetoid movements, concentration difficulties, convulsion, dizziness, dyskinesia, dysgeusia, fatigue, headache, hyperactivity, hyperreflexia, intracranial haemorrhage, neuroleptic malignant syndrome, stroke, tremor, Tourette's syndrome

Psychiatric disorders: aggressive behaviour, anxiety, confusion, delirium, depression, drug dependence, dysphoria, emotional lability, euphoria, hallucination, impaired cognitive test performance, insomnia, irritability, libido altered, nervousness, night terrors, obsessive-compulsive behavior, panic states, paranoia, psychosis/ psychotic reactions, restlessness, tics

Renal and urinary disorders: renal damage

Reproductive system and breast disorders: impotence

Skin and subcutaneous tissue disorders: alopecia, rash, sweating, urticaria

Vascular disorders: cardiovascular collapse, cerebral vasculitis

A toxic hypermetabolic state, characterised by transient hyperactivity, hyperpyrexia, acidosis and death due to cardiovascular collapse have been reported.

Cessation of, or reduction in, amphetamine use that has been heavy and prolonged can result in withdrawal symptoms. Symptoms include dysphoric mood, fatigue, vivid and unpleasant dreams, insomnia or hypersomnia, increased appetite, psychomotor retardation or agitation, anhedonia and drug craving.

Reporting of suspected adverse reactions

Reporting suspected adverse reactions after authorisation of the medicine is important. It allows continued monitoring of the benefit/risk balance of the medicine. Healthcare

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professionals are asked to report any suspected adverse reactions
<https://nzphvc.otago.ac.nz/reporting/>

4.9 Overdose

In acute overdosage, the adverse effects are accentuated and may be accompanied by hyperpyrexia, mydriasis, hyperreflexia, chest pain, cardiac arrhythmias, confusion, panic states, aggressive behaviour, hallucinations, delirium, convulsions, respiratory depression, coma, circulatory collapse and death.

Individual patient response may vary widely and toxic manifestations may occur at relatively low doses.

Treatment consists of the induction of vomiting and/or gastric lavage together with supportive and symptomatic measures. Excessive stimulation or convulsions may be treated with diazepam. Excretion of dexamfetamine may be increased by forced acid diuresis. Chlorpromazine antagonizes the central stimulant effects of amphetamines and can be used to treat amphetamine intoxication.

For advice on the management of overdose please contact the National Poisons Centre on 0800 POISON (0800 764766).

5. PHARMACOLOGICAL PROPERTIES

5.1 Pharmacodynamic properties

Actions Dexamfetamine, the dextrorotatory isomer of amphetamine, is an indirect-acting sympathomimetic amine with central stimulant and anorectic activity. It increases motor activity and mental alertness, and diminishes drowsiness and a sense of fatigue. In children with attention-deficit hyperactivity disorder, dexamfetamine decreases motor restlessness and enhances the ability to pay attention. Amphetamine facilitates the action of dopamine and norepinephrine by blocking re-uptake from the synapse, inhibits the action of monoamine oxidase (MAO), and facilitates the release of catecholamines. It may also stimulate inhibitory autoreceptors in the *substantia nigra* and *ventral tegmentum*.

5.2 Pharmacokinetic properties

Pharmacokinetics Dexamfetamine sulfate is readily absorbed from the gastrointestinal tract and rapidly distributed into most of the body tissues with high concentrations in the brain and CSF.

The biotransformation is hepatic and the biological half-life is 10 to 12 hours in adults and 6 to 8 hours in children. The main metabolic reaction is oxidative deamination to form phenylacetone, which is then oxidised to benzoic acid and conjugated with glycine to form hippuric acid.

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The elimination is mainly renal. Urinary elimination is pH dependent and enhanced in acid urine. A considerable fraction may be excreted in the urine unchanged. Under uncontrolled urinary pH conditions, about 30% of the dose is excreted unchanged in the urine in 24 hours and a total of about 90% of the dose is excreted in 3 to 4 days.

5.3 Preclinical safety data

There are no pre-clinical data of relevance to the prescriber which are additional to those included in other sections

6. PHARMACEUTICAL PARTICULARS

6.1 List of excipients

Lactose monohydrate
Wheat Starch
Povidone
Magnesium Stearate

6.2 Incompatibilities

In the absence of compatibility studies, this medicine must not be mixed with other medicines.

6.3 Shelf life

24 months from date of manufacture.

6.4 Special precautions for storage

Store below 25°C.

6.5 Nature and contents of container

Pack of 100 tablets in a HDPE bottle.

6.6 Special precautions for disposal

Any unused medicine or waste material should be disposed of in accordance with local requirements.

7. MEDICINE SCHEDULE

Class B1 Controlled Drug

8. SPONSOR

Pharmacy Retailing (NZ) Limited

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58 Richard Pearse Drive
Airport Oaks
AUCKLAND

9. DATE OF FIRST APPROVAL

13 October 2022

10. DATE OF REVISION OF THE TEXT

19 December 2022

SUMMARY TABLE OF CHANGES

Section changes	Summary of new information
6.3	Change of shelf life to 24 months.