5.3. Preclinical safety data

Repeat dose subcutaneous toxicity studies reveal no included in other sections of the SmPC.

In vitro genotoxicity studies demonstrated mutagenic and clastogenic effects, most likely due to products formed by No carcinogenicity studies have been performed. oxidation of apomorphine. However, apomorphine was not genotoxic in the in vivo studies performed.

The effect of apomorphine on reproduction has been investigated in rats. Apomorphine was not teratogenic in special hazard for humans, beyond the information this species, but it was noted that doses which are toxic to the mother can cause loss of maternal care and failure to breathe in the newborn.

6. PHARMACEUTICAL PARTICULARS

6.1. List of excipients

Sodium metabisulphite (E223) Hydrochloric acid (for pH-adjustment) Sodium hydroxide (for pH-adjustment) Water for injections

6.2. Incompatibilities

medicinal products.

6.3. Shelf life

Unopened: 24 months

After first opening: Chemical and physical in-use stability has been demonstrated for 15 days at 25°C.

From a microbiological point of view, unless the method times and conditions are the responsibility of the user.

6.4. Special precautions for storage

Do not store above 25°C. Do not refrigerate or freeze.

Keep the container in the outer carton in order to protect from light.

The product should be stored at the same conditions after opening and between withdrawals.

For storage conditions after first opening of the medicinal product, see section 6.3.

6.5. Nature and contents of container

Clear glass cartridges, type I with bromobutyl rubber stopper and an aluminium flip-off cap with bromobutyl rubber seal, containing a clear solution for injection.

Each cartridge contains 3 ml of solution for injection.

This medicinal product must not be mixed with other Packs containing: 5, 10, 30, 2 x 5 (bundle pack), 6 x 5 (bundle pack) and 3 x 10 (bundle pack) of 3 ml cartridges in a moulded plastic tray in an outer cardboard carton. Not all pack sizes may be marketed.

6.6. Special precautions for disposal and other

Do not use if the solution has turned green.

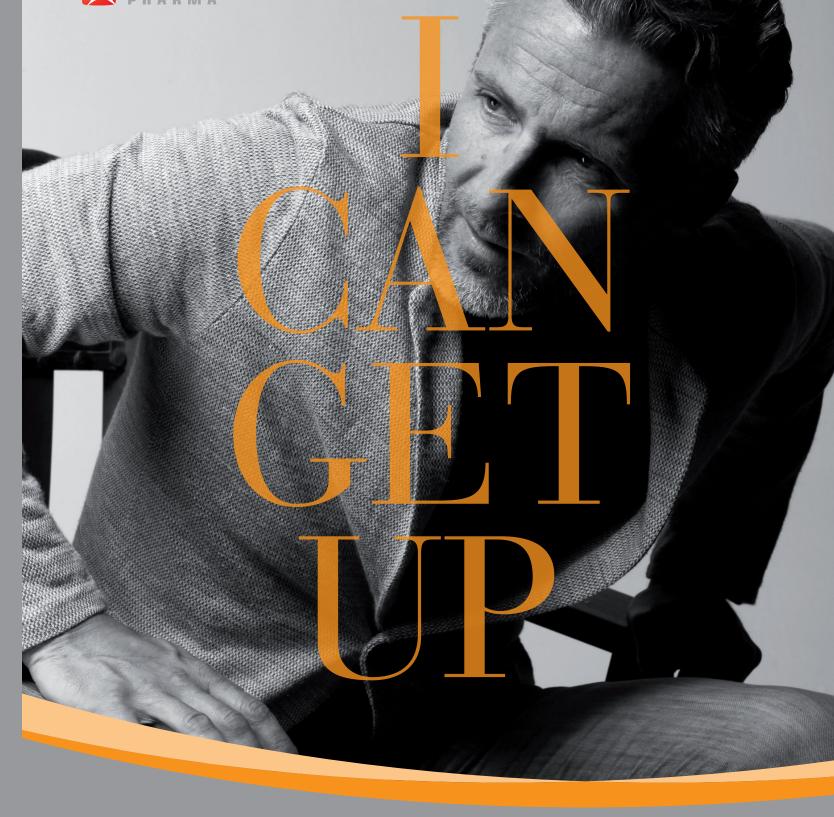
of opening and further handling precludes the risk of The solution should be inspected visually prior to use. microbial contamination, the product should be used Only clear and colourless to slightly yellow solutions immediately. If not used immediately, in-use storage without particles in undamaged containers should be

> Any unused medicinal product or waste material should be disposed of in accordance with local requirements. Discard each cartridge with any unused content not later than 15 days after first opening.

> The patient should be advised how to safely discard the needle after each injection.

Dacepton® cartridges are designed to be used only with the dedicated D-mine® Pen and disposable pen-needles as specified in the Instructions for Use of the pen.





Parkinson's disease in the advanced stage:

Caught in a cage of stiffness and unability. Dacepton® 10 mg/ml solution for injection in 3 ml cartridge gets patients back to life. As the strongest non selective dopamine agonist, Dacepton® shortens the "off"-phases¹ and delivers a controlled "on" period for patients. The Dacepton® intermittent injection therapy on demand may have a positive impact on daily activities!

1) Gunzler, 2009

Apomorphine Hydrochloride

EVER Neuro Pharma GmbH Oberburgau 3, 4866 Unterach/Austria

www.d-minecare.com

1. NAME OF THE MEDICINAL PRODUCT

Dacepton® 10 mg/ml Solution for injection in 3 ml cartridge

2. QUALITATIVE AND QUANTITATIVE COMPOSITION

1 ml contains 10 mg apomorphine hydrochloride hemihydrate

3 ml contain 30 mg apomorphine hydrochloride

Excipient with known effect: Sodium metabisulphite (E223) 1 mg per ml Sodium chloride 8 mg per ml

For the full list of excipients, see section 6.1.

3. PHARMACEUTICAL FORM

Solution for injection in cartridge.

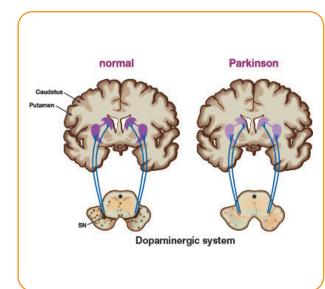
The solution is clear and colourless or almost colourless to slightly yellow and free from visible particles. pH of 3.3 - 4.0.

Osmolality: 62,5 mOsm/kg

4. CLINICAL PARTICULARS

4.1. Therapeutic indications

in patients with Parkinson's disease which are not responsible carer able to inject for them when required. sufficiently controlled by oral anti-Parkinson medication.



4.2. Posology and method of administration

Selection of patients suitable for Dacepton® 10 mg/ml solution for injection in cartridge:

Patients selected for treatment with Dacepton® should

be able to recognise the onset of their "off" symptoms Treatment of motor fluctuations ("on-off" phenomena) and be capable of injecting themselves or else have a

> It is essential that the patient is established on domperidone, usually 10 mg three times daily, for at least two days prior to initiation of therapy.

> Apomorphine should be initiated in the controlled environment of a specialist clinic. The patient should be supervised by a physician experienced in the treatment of Parkinson's disease (e.g. neurologist). The patient's treatment with levodopa, with or without dopamine agonists, should be optimised before starting treatment with Dacepton® 10 mg/ml solution for injection in cartridge.

Method of administration

Dacepton® solution for injection in cartridge is intended for multidose use by subcutaneous intermittent bolus injection using the suitable dosing pen from EVER Neuro Pharma.

Patients and caregivers must receive detailed instructions in the preparation and injection of doses, with particular attention paid to the correct use of the required dosing

Apomorphine must not be used via the intravenous route.

Do not use if the solution has turned green. The solution In clinical studies it has usually been possible to make colourless and particle free solution should be used.

Determination of the threshold dose

suggested:

1 mg of apomorphine hydrochloride hemihydrate (0.1 ml), that is approximately 15-20 micrograms/kg, may be Paediatric population injected subcutaneously during a hypokinetic, or "off" Dacepton® 10 mg/ml solution for injection in cartridge is motor response.

If no response, or an inadequate response, is obtained *Elderly* a second dose of 2 mg of apomorphine hydrochloride The elderly are well represented in the population of hemihydrate (0.2 ml) is injected subcutaneously and the patients with Parkinson's disease and constitute a 30 minutes.

with at least a forty minute interval between succeeding initiation of therapy in elderly patients because of the risk injections until a satisfactory motor response is obtained. of postural hypotension.

Establishment of treatment

subcutaneous injection may be given into the lower and the elderly, can be followed for patients with renal abdomen, upper arm or outer thigh at the first signs of an impairment (see section 4.4). ,off' episode. It cannot be excluded that absorption may differ with different injection sites within a single individual. 4.3. Contraindications Accordingly, the patient should then be observed for Hypersensitivity to the active substance or to any of the the next hour to assess the quality of their response to excipients listed in section 6.1. treatment. Alterations in dosage may be made according to the patient's response.

The optimal dosage of apomorphine hydrochloride hemihydrate varies between individuals but, once Apomorphine hydrochloride hemihydrate must not be established, remains relatively constant for each patient.

Precautions on continuing treatment

The daily dose of Dacepton® 10 mg/ml varies widely between patients, typically within the range of 3-30 mg, Dacepton® 10 mg/ml solution for injection is separate injections per day.

that individual bolus injections should not exceed 10 mg.

should be inspected visually prior to use. Only clear, some reduction in the dose of levodopa; this effect varies considerably between patients and needs to be carefully managed by an experienced physician.

The appropriate dose for each patient is established by Once treatment has been established, domperidone incremental dosing schedules. The following schedule is therapy may be gradually reduced in some patients but successfully eliminated only in a few, without any vomiting or hypotension.

period and the patient is observed over 30 minutes for a contraindicated for children and adolescents under 18 years of age (see section 4.3).

patient observed for an adequate response for a further high proportion of those studied in clinical trials of apomorphine. The management of elderly patients treated with apomorphine has not differed from that of younger The dosage may be increased by incremental injections patients. However, extra caution is recommended during

Renal impairment

Once the appropriate dose is determined a single A dose schedule similar to that recommended for adults,

In patients with respiratory depression, dementia, psychotic diseases or hepatic insufficiency.

administered to patients who have an "on" response to levodopa which is marred by severe dyskinesia or

given as 1-10 injections and sometimes as many as 12 contraindicated for children and adolescents under 18 vears of age.

It is recommended that the total daily dose of apomorphine It is recommended to avoid the administration of hydrochloride hemihydrate should not exceed 100 mg and apomorphine with other drugs known to prolong the QT

4.4. Overdose

There is little clinical experience of overdose with apomorphine by this route of administration.

Symptoms of overdose may be treated empirically as sugaested below:

- Excessive emesis may be treated with domperidone.
- Respiratory depression may be treated with naloxone.
- Hypotension: appropriate measures should be taken, e.g. raising the foot of the bed.
- Bradycardia may be treated with atropine.

5. PHARMACOLOGICAL PROPERTIES

5.1. Pharmacodynamic properties

Pharmacotherapeutic group: Anti-Parkinson drugs, dopamine agonists, ATC code; N04B C07

Mechanism of action

pathways with levodopa.

5.2. Pharmacokinetic properties

After subcutaneous injection of apomorphine its fate can be described by a two-compartment model, with a distribution half-life of 5 (±1.1) minutes and an elimination half-life of 33 (±3.9) minutes. Clinical response correlates Apomorphine is a direct stimulant of dopamine receptors well with levels of apomorphine in the cerebrospinal fluid; and while possessing both D1 and D2 receptor agonist the active substance distribution being best described properties does not share transport or metabolic by a two-compartment model. Apomorphine is rapidly and completely absorbed from subcutaneous tissue,

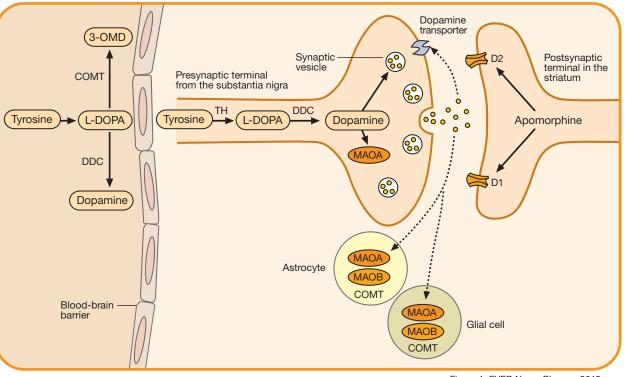


Figure 1: EVER Neuro Pharma, 2012

Although in intact experimental animals, administration correlating with the rapid onset of clinical effects (4-12 reduction in locomotor activity (thought to represent pre-rapid clearance. synaptic inhibition of endogenous dopamine release) its effect is also seen in humans.

of apomorphine suppresses the rate of firing of nigro- minutes), and that the brief duration of clinical action of striatal cells and in low dose has been found to produce a the active substance (about 1 hour) is explained by its

actions on parkinsonian motor disability are likely to be The metabolism of apomorphine is by glucuronidation mediated at post-synaptic receptor sites. This biphasic and sulphonation to at least ten per cent of the total; other pathways have not been described.