

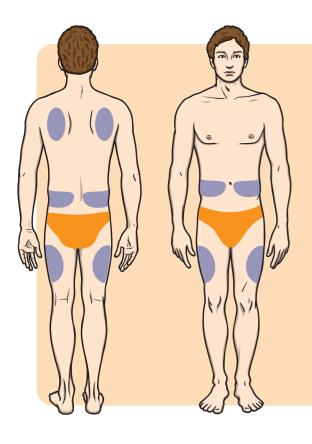
Skin Care Instructions

Pump Infusions



Continuous infusion with Dacepton^{*} (Apomorphine hydrochloride) is a therapeutic strategy to optimise the absorption of Parkinson's disease medication.

As with many treatments delivered under the skin, it is possible that at some point skin reactions can be experienced. This can include redness, tenderness, itching or the development of small nodules' under the skin at the infusion site. These symptoms are not dangerous and can be helped or prevented by taking certain steps, described in this leaflet.



WHERE CAN APOMORPHINE BE INJECTED?

Apomorphine should be injected subcutaneously (s.c.) into the fatty tissue underneath the skin. Commonly used sites include

- the outer thighs and
- tummy (below the belly button).

Injection sites should be changed daily to prevent skin irritation.

NEVER inject into muscles (i.m.) since this layer is supplied with blood vessels which can lead to blockage of the needle

WHAT ARE SKIN NODULES?

Although apomorphine is rapidly absorbed from subcutaneous tissue, it can pool in the skin causing nodules. A side effect of apomorphine therapy can be redness, tenderness, itching and development of nodules and/or hardening of the skin at the injection site. These reactions often resolve with time, but in some cases, these tissue changes may make insertion of the infusion needle difficult, and may affect absorption of the drug.

WHAT CAUSES THEM?

Histological studies have concluded that apomorphine nodules are a form of panniculitis – a local inflammatory reaction in the subcutaneous tissue. This irritation, which can vary strongly between individuals, sometimes occurs in response to the medication or the needle.

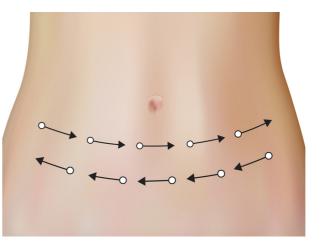
HOW COMMON ARE NODULES WITH APOMORPHINE TREATMENT?

The development of nodules is usually not a significant problem, but occasionally, if severe, can lead to erratic absorption of the drug and may compromise therapeutic effects. Any nodule formation can be improved with strict rotation of the injection site.

HOW TO ROTATE INJECTION SITES?

The injection site has to be changed on a daily basis. In case of 24h infusions it should be changed every 12h. This will help to reduce the formation of nodules beneath the skin. It is important not to use the same area of skin on consecutive days. Changing the injection site daily is called 'site rotation'.

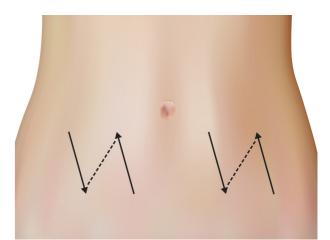
Suitable needle sites can be discussed with the Parkinson's Nurse. The illustrations below show possible schemes for site rotation.



When choosing an infusion site ensure that:

- It is at least 5 cm away from the previous infusion site and the belly button
- It is not injected in a skin fold or in scar tissue
- The skin is not red, itchy, painful or swollen
- A new needle is used every day
- Re-using the same site after needle dislocation or removal is avoided

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HOW ELSE CAN POTENTIAL NODULE DEVELOPMENT BE **REDUCED?**

Good hygiene is important. In many cases, good hygiene will minimise the risk of skin reactions. Use a clean surface to set up the pump preparation.

1 Hands Washing

First hands should be washed thoroughly at least for 20 - 30 seconds.

- Remove any rings
- Clean your hands thoroughly before injecting the infusion set
- Use liquid soap and count to 15 while washing
- Pay particular attention to fingertips, fingernails, thumbs and palms
- Dry hands with a clean towel

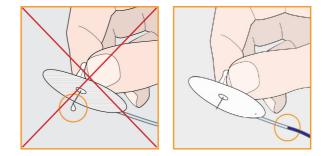
Medical instructions on how to disinfect hands

Hands have to be disinfected with disinfection solution. The solution should be rubbed upon palm and back of hands as well as each finger seperately including fingertips and nails.





2 Insert with a dry needle tip ("Dry" Punction)



3 Massage

Massaging the skin either manually or using massage equipment (see picture of a spikey ball and massage item) between 3-5 minutes after removal of the needle. This can be also recommended before setting the infusion line to support circulation.

4 Special tapes



In case that there is a higher tendency of developing nodules, the use of special tapes, e.g. Crosstapes, can be considered. Crosstapes are gridshaped and self-adhesive tapes that are available in different colors and sizes. They are glued to pain points, acupuncture and trigger points.



The patches contain no active pharmaceutical ingredients and no painkillers. Crosstapes are resistant, water-repellent and breathable material and stick to the skin for several days. It is also possible to take a shower or swim They are available in various sizes in pharmacies or drugstores (www.k-tape.com).

5 Squeeze the skin after removal of the needle

Apomorphine spillage or any excess of Apomorphine under the skin should be squeezed out after each injection. (Bhidayasiri et al., 2016)

Gently squeeze the skin after removal of needle to remove any excess apomorphine.

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- Ensure that there is no apomorphine in the needle when inserted into the skin.
- (Bhidayasiri et al., 2016)
- Stop the priming process of the catheter tube
- earlier than recommended to prevent the
- needle becoming wet.
- Please ask your PD specialist.





HOW TO MANAGE SKIN IRRITATIONS?

The following options may be considered

- Do not inject into an area where the skin is sore, red, or infected.
- In case of inflamed skin
 - Use an anti-inflammatory ointment (e.g. with arnica or comfrey)
 - Hold a cold compress to inflamed skin
- In case of nodules
 - Massage the skin with some moisturiser using massage equipment like the spikey ball for 5-10 minutes
 - Ultrasound (high frequency sound waves) can be beneficial for treating lumps
 - Electrical stimulation of the skin
 - Medical laser treatment
- · In case of circulation disorders oil of Saint John's wort can be considered

MANAGING ALLERGIC REACTIONS

Infusion sets with dressings - like an adhesive foil - are recommended because:

- They reduce dislocation of the needle
- They prevent bacterial infection
- Transparent dressings allow visual access to the site, so that site reactions and needle displacement can be seen

But it might happen that allergic reactions occur on the skin due to the adhesive foil:

- Hypoallergenic dressings and adhesive foil tapes can be used instead
- Special ointment like 3M[™] Cavilon[™] can be used.

It forms a breathable, transparent film for long-lasting protection. It is fast drying and non-sticky for better patient comfort. It provides clinically-proven medical adhesive-related skin injury (MARSI) prevention under

dressings and tapes around injection sites.



MANAGING PERSISTENT SKIN REACTIONS

If persistent redness, itchiness, pain or swelling around any infusion site are experienced, it should be reported to the Parkinson's Nurse, who can assess them and offer advice on how to minimise or resolve the problem. This could include

- Training on skin management
- Change of infusion set according to length, size or angle
- Switch to another needle type (e.g. from steel to teflon with a flexible canula)

SHOULD SKIN NODULES STOP TREATMENT?

No. Skin nodules although common, present no significant problem in most cases.

Please refer to complete package leaflet for detailed information. If you have any questions or queries arising from skin irritations, please ask your Parkinson's disease specialist or

Your D-mine[®] Care Team

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<text> by its rapid clearance. The metabolism of apomorphine is by glucuronidation and sulphonation to at least ten per cent of the total; other pathways have not been described. PRECLINICAL SAFETY DATA: Repeat dose subcutaneous toxicity studies reveal no special hazard for humans, beyond the information included in other sections of the SMPC. In vitro genotoxicity studies demonstrated mutagenic and clastogenic effects, most likely due to products formed by 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 genotoxic in the in vivo studies performed. The effect of apomorphine on reproduction has been investigated in rats. Apomorphine was not teratogenic in 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. No carcinogenicity studies thave been performed. UST OF EXCIPIENTS: Solium retbability billse: In the absence of compatibility studies, this medicinal product must not be mixed with other medicinal products. SHELF LIFE: Unopened: 30 months. After opening and filling the drug product in syringes attached with infusion sets: chemical and physical in-use stability has been demonstrated for 7 days at 25 °C. From a microbiological point of view, unless the method of opening and unused contents. Special precautions for storage: Keep the vials in the outer carton in order to protect from light. Do not refrigerate or freeze. NATURE AND CONTENTS OF CONTAINER: Clear glass vials, type I with bromobutly rubber stopper and a fill-off cap, containing 20 ml solution for infusion, in packs of 1 or 5 vials. Bundle packs: 5 x 1 / 0 x 1, 2 x 5 and 6 x 5. Not all pack sizes may be marketed. Special precautions for idous all and or use of the solution should be inspected visually prior to use. Only clear and colourles to slightly vellow solutions without particles in undamaged containers should be used. For

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