



neoplas tools  
MEDICAL PLASMA

## FAQ – Patients

### Which diseases are most suitable for plasma treatment?

A therapy with the **kINPen® MED** is a good treatment especially for chronic wounds like *ulcus cruris* or diabetic feet. Apart from that the **kINPen® MED** plasma jet is used for the treatment of postoperative wounds and pathogen-induced skin disorders such as fungal infections, warts or acne.

### What is the benefit of a plasma treatment?

The treatment with cold plasma supports wound healing and has an additional anti-bacterial effect. Plasma therapy may prove successful in cases where standard procedures like antiseptics, ointments, dressings or even surgical wound care do not show any effect. Clinical studies and observational studies by physicians demonstrate that many chronic wounds heal after several weeks of therapy with the **kINPen® MED** device.

### What happens during the treatment?

The plasma jet is moved evenly over the skin areas to be treated with a speed of ca. 5 mm/s without any direct wound contact. The plasma combines different modes of action (UV radiation, reactive species, electromagnetic fields, short-term temperature increase). These different components of cold plasma have a strong anti-bacterial effect and simultaneously stimulate the regeneration of healthy tissue.

## How long does an application/ the therapy take?

The intensity of the treatment is controlled via the treatment time and should amount to 30-60 s/cm<sup>2</sup>. The treatment can be performed in one-day to three-day intervals as long as there are no side effects. The overall duration of the cold plasma therapy depends on the individual wound conditions and the treatment frequency.

## Are there any side effects / Will any resistances develop?

Treatment with the **kINPen® MED** has proven to be very well tolerated. So far no side effects or formation of resistances have been observed.

## Does the cold plasma application cause pain?

The treatment is performed without any wound contact and it does not cause any additional pain. Patients report that the cold plasma application feels like a breath of cool air. Many of them experience an alleviation of pain and itching after the treatment.

## Am I a suitable patient for this treatment?

Ask your attending physician whether a treatment with the **kINPen® MED** cold plasma device could be an option for you.

## Will my health insurance cover the treatment costs?

The application of cold physical plasmas in wound management has not been integrated into routine care yet. The **kINPen® MED** is currently used by hospitals and an increasing number of independent medical practices. Some health insurance companies are beginning to take over the treatment costs upon application.

**The therapy is performed as a supplement  
to the standard wound management.**