

THE LATEST NAIL FUNGUS TREATMENT: COLD PLASMA



NATIONALES ZENTRUM
FÜR PLASMAMEDIZIN e.V.

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TECH

INNOVATIVE COLD PLASMA TECHNOLOGY AGAINST NAIL FUNGUS

Atmospheric cold plasma (ACP) expands the range of podiatric treatments: it is specifically effective in cases that are therapy-resistant or prone to infection, has an antimicrobial effect on pathogenic germs, and at the same time has a regenerative effect on intact skin. This makes it suitable for both supportive treatment and preventive use—an innovative added value for professional foot care.

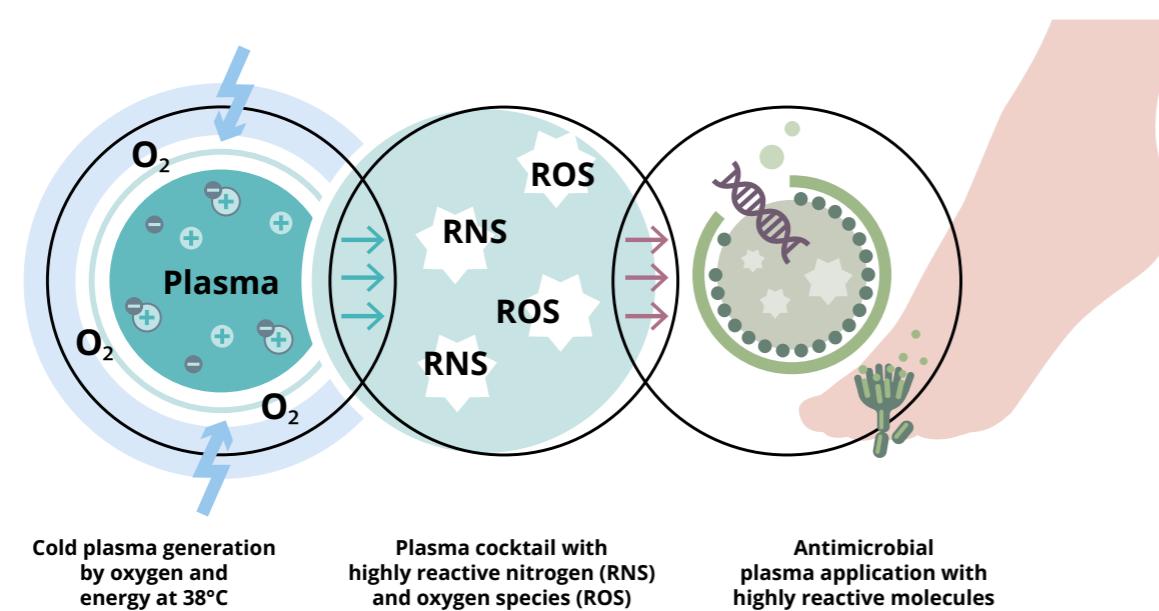
BUT FIRST: WHAT EXACTLY IS COLD PLASMA?

Cold plasma is the result of a physical process in which a gas (e.g., oxygen) is electrically ionized by the supply of energy. The Dr. plajin cold plasma device generates its cold plasma directly from the ambient air – safely, without contact, and without any consumables. This creates a highly active mixture of activated oxygen and nitrogen molecules (ROS/RNS). This cocktail has antimicrobial properties that can be used, for example, in the treatment of nail mycosis.

With cold plasma, the energy input is so moderate that it is only partially ionized. The temperature is then in the range of body heat, making it skin-friendly and safe to use. Treatment with cold plasma is purely physical, without the addition of external gases or materials.

ANTIMICROBIAL EFFECT

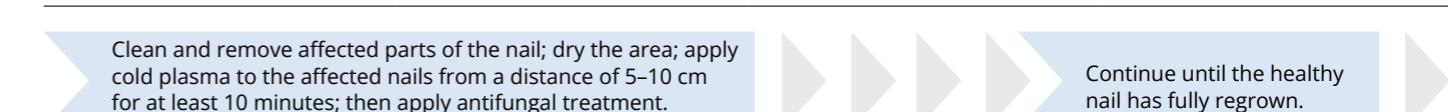
Destructive against pathogens: The particles destroy cell membranes, proteins, and DNA of bacteria, fungi, and viruses.



COLD PLASMA APPLICATION IN PODIATRY – EXEMPLARY INDICATIONS

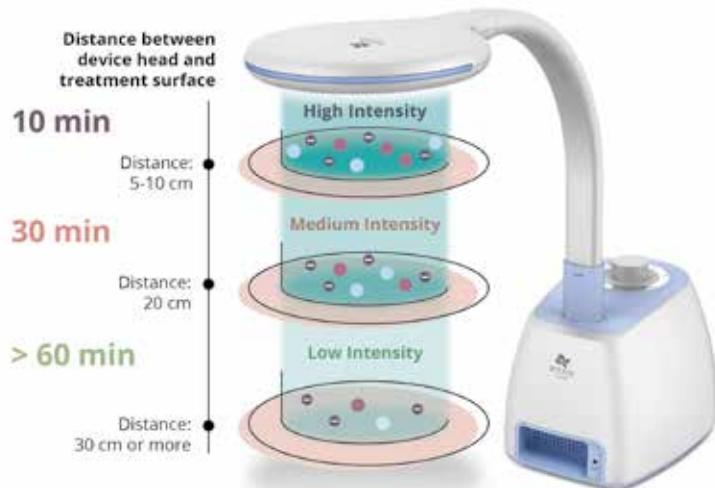
INDICATION	EFFECT	DURATION	DISTANCE	FREQUENCY	CARE
Nail fungus	Antimycotic effect by destroying the fungal cell structure. Especially helpful in therapy-resistant cases.	10 minutes	5 – 10 cm	2-3 times/week during the first 2 weeks, then 1×/week; maintenance phase: 1×/month starting from the 2nd month.	GEHWOL MED Nail and Skin Protection Spray
Inflamed nail	Relieves inflammation and pain, promotes healing after pressure relief.	10 minutes	5 – 10 cm	1-2×/week	GEHWOL MED Nail Softener, GEHWOL Fluid
Diabetic foot syndrome (non-ulcerated)	Improves microcirculation, helps prevent infections.	30 minutes	10 – 30 cm	1-2 ×/week depending on the severity	GEHWOL MED Lipidro Cream
Athlete's foot	Relieves itching and redness, reduces pathogenic germs.	30 minutes	10 – 30 cm	3×/week	GEHWOL FUSSKRAFT Care Cream, GEHWOL MED Protective Nail and Skin Cream
Nail correction (e.g., NASPAN brace)	Prevents irritation and infection after brace placement.	10 minutes	5 – 30 cm	Apply after placement and at follow-up appointments.	GEHWOL MED Protective Nail and Skin Oil
Cracks / fissures	Activates wound healing and reduces bacterial load.	10 minutes	5 – 10 cm	2-3×/week	GEHWOL MED Salve for Cracked Skin

EXAMPLE TREATMENT: NAIL FUNGUS

1ST MONTH THERAPY PHASE	2ND MONTH MAINTENANCE PHASE	3RD MONTH MAINTENANCE PHASE	4TH MONTH MAINTENANCE PHASE
Week 1-2: 2× per week, 10 minutes Week 3-4: 1× per week, 10 minutes	1× per month, 10 minutes	1× per month, 10 minutes	1× per month, 10 minutes
<p>Clean and remove affected parts of the nail; dry the area; apply cold plasma to the affected nails from a distance of 5-10 cm for at least 10 minutes; then apply antifungal treatment.</p>  <p>Continue until the healthy nail has fully regrown.</p>			

INTENSITY AND DISTANCE DEPENDENCY FROM THE DEVICE HEAD

TREATMENT DURATION



The plasma concentration of reactive species (ROS/RNS) depends on the distance between the device head and the treatment surface. The shorter the distance, the higher the intensity, the shorter the treatment time – and vice versa.

● Free electrons, ● Reactive oxygen species (ROS), ● Reactive nitrogen species (RNS)

The Dr.plajin cold plasma device works completely contact-free and generates effective plasma components directly from the ambient air. The intensity of the treatment can be easily controlled by adjusting the distance to the skin.

A smaller distance ensures a higher plasma concentration and shortens the treatment time, while a larger distance has a particularly gentle effect with a consistently uniform treatment area.

ADVANTAGES AT A GLANCE

- Gentle & painless: contactless application from a distance of approx. 10 cm, intuitive and simple.
- No consumables required: hygienic, sustainable, low-maintenance, and cost-effective.
- Largest available treatment area: 400 cm² – also covers surrounding skin areas for effective prevention.
- Mobile & flexible: compact design, easy to transport, ready for immediate use.
- High Cost-Effectiveness for both the practice and self-paying patients:

FAIR PRICING STRUCTURE	PRICING EXAMPLE	POTENTIAL REVENUE*
<input checked="" type="checkbox"/> Device Depreciation <input checked="" type="checkbox"/> Practice Overhead (e.g., room costs, utilities) <input checked="" type="checkbox"/> Personnel Time (setup, hygiene, consultation) <input type="checkbox"/> Not applicable: Material consumption (e.g., spacers) <input type="checkbox"/> Not applicable: Material consumption (e.g., spacers)	<input checked="" type="checkbox"/> Realistic price: 2-3 € per minute of cold plasma treatment <input checked="" type="checkbox"/> Example – Nail Fungus Therapy* 6 sessions of 10 minutes each = 180 € revenue 30 € per session during maintenance phase (calculated at 3 €/min)	<ul style="list-style-type: none"> 50 patients × 6 sessions × 10 minutes: ≥ 9.000 € additional revenue 100 patients × 6 sessions × 10 minutes: ≥ 18.000 € additional revenue 250 patients × 6 sessions × 10 minutes: ≥ 45.000 € additional revenue

*calculated at 3 € per minute

Even with just 28 nail fungus patients, the device acquisition cost is covered through the initial therapy phase alone.
And after that? Only high-margin additional revenue, since there are no operating costs.

TECHNICAL DATA:

Medical device

Dimensions of device body (W x L x H): 26 cm x 33.5 cm x 21 cm

Dimensions of treatment head (W x L x H): 22 cm x 29 cm x 39 cm

Total weight: 7.5 kg

COLD PLASMA DEVICE DR.PLAJIN

Scope of delivery: Cold plasma device, grounding bracelet, adapter, power cable, instruction manual



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Order No.

302 400 000

Accessories

Order No.

302 400 010

Accessories

Metal earthing bracelet for cold plasma device Dr.plajin