



# PlasmoHeal<sup>®</sup>

EFFECTIVE WOUND DISINFECTION WITH  
PLASMA-ACTIVATED AEROSOL



## Modern & effective wound healing



There are different types of wounds. Particularly problematic are chronic and secondary healing wounds that do not show any significant healing tendency even after several weeks.

**In Germany alone, there are about 2.7 million people with chronic wounds, some of which have been treated for decades and still do not heal.\***

With our patented plasma-activated aerosol method, we offer an effective & painless therapy:

**Plasmohel®**

## Our patented method



## The unique mixture of cold plasma and finest aerosols is effective against microorganisms with a high tissue tolerance

Cold plasma: a gaseous mixture of ionised molecules & electrons. A purely physical creation process using ambient air & electricity.

Aerosols: a fine mist is created in the unit, mixed with the cold plasma & delivered to the wound, skin & wound area via a tube with applicator.

**The plasma-activated aerosol eliminates microorganisms and delays primary adhesion & biofilm formation.**

 Click here for our Youtube channel

# The new generation of wound therapy with Plasm<sup>o</sup>Heal<sup>®</sup>

- Very rapid decrease in signs of infection
- Inhibits inflammation of the skin (without addition of steroids)
- Reduction of fibrin coatings & promotion of granulation and epithelialisation
- High tissue efficacy and deep penetration
- Stimulation of wound healing by automatically lowering the pH value
- Rapid wound closure possible (even in difficult-to-heal wounds)
- Painless & contactless application
- No toxic or allergic reactions
- Rapid reduction of pain & odour
- No additional damage to the wound environment



Ideal for wound centres  
& outpatient services

Easy handling

Cost-effective therapy

# Case study 1: Healing after bypass with the help of Plasm<sup>o</sup>Heal<sup>®</sup>



Day 0

**14 weeks old wound**

- much exudate (bloody, greenish)
- Wound bed largely covered, granulation, fatty tissue
- Infection with Gram bacteria



Day 14

- Decrease in exudate
- Decrease in fibrin coatings, granulation
- slightly reddened



Day 28

- Epithelialisation
  - No signs of infection
- Almost complete wound closure with beautiful scarring**

Procedure (2x/week):

1. Cleaning with wound irrigation solution
2. Application of **Plasm<sup>o</sup>Heal<sup>®</sup>** over 3 minutes
3. Cover with non-active dressing
4. Secondary dressing with non-active foam/absorbent pad



## Case study 2: Diabetic ulcer therapy with the help of Plasm<sup>o</sup>Heal<sup>®</sup>



**Day 0**  
**5 weeks old wound**

- Exudate moderate
- Fibrinous layer, granulation
- Redness
- Wound margin slightly macerated



**Day 14**

- Moderate exudate
- Granulation in the wound bed
- No more signs of infection
- Wound area without special features



**Day 28**

**→ Rapid decrease of inflammatory signs and rapid onset of epithelialisation**

Procedure (2x/week):

1. Cleaning with wound irrigation solution
2. Application of **Plasm<sup>o</sup>Heal<sup>®</sup>** over 3 minutes
3. Cover with non-active dressing
4. Secondary dressing with non-active foam/absorbent pad

# Case study 3: Treatment of venous leg ulcers with the help of Plasm<sup>o</sup>Heal<sup>®</sup>



**Day 0**

**5 weeks old wound**

- much exudate (yellowish, turbid)
- Wound bed covered
- Redness, pain
- Wound area slightly macerated



**Day 14**

- Exudate moderate
- Granulation, marked reduction in wound area
- No more signs of infection



**Day 28**

- Granulation, epithelisation
- **Rapid reduction of the wound area, pain already significantly reduced after the 2nd treatment**

**Procedure (2x/week):**

1. Cleaning with wound irrigation solution
2. Application of **Plasm<sup>o</sup>Heal<sup>®</sup>** over 3 minutes

3. Cover with non-active dressing
4. Secondary dressing with non-active foam/absorbent pad

**Additional therapy:**

Compression

## Data & Certifications

### Efficacy & safety confirmed by German accredited laboratories

<b>Size</b>	27 x 25 x 24 cm
<b>Weight</b>	3.0 kg
<b>Environmental conditions (operation)</b>	+5 - +40 °C, 10 - 90 % rel. humidity (no condensation), 700 - 1060 hPa
<b>Power supply unit</b>	Input: 100 - 240 V ~, 50/60 Hz, output: 24 V, 2.71 A
<b>Protection against electric shock / of the housing</b>	Class II IP21
<b>Material</b>	Plastic UL 94
<b>Consumables</b>	WK-MedTec Operating water, hose, applicator
<b>Disinfection cycle</b>	Approx. 3 minutes

**Tested efficacy & toxicological safety**  
by German accredited laboratories



**Certified medical device**

**Applied standards:**

EN 60601-1:2006 +A1:2013, EN 60601-1-2:2015  
2014/35/EU, 2014/30/EU





# About us

## WK-MedTec

Our mission: to develop **high-quality, sustainable and at the same time uncomplicated** medical technology solutions that simplify people's lives.

This is how the **start-up WK-MedTec** was found in 2020. Product development began back in 2014, after Wilfried Krömker had successfully run his own medical technology company independently for over 40 years.



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