



**GOLD**  
FuSiON

2025

Presented By  
Pacem Technology

# Products and Case Studies for Pet Applications



 **pacem**  
Veterinary

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# Pacem Technology

Pacem Technology, based in Izmir and established in 2018 with the support of TÜBİTAK, offers pioneering solutions in the development of cold atmospheric plasma products through its R&D activities in Turkey and the UK. The team, consisting of experienced scientists, engineers, and experts, ensures that cold atmospheric plasma plays a beneficial role in science, industry, clinics, and at home.

Pacem provides painless and rapid treatment opportunities without the use of any drugs by employing plasma in its cold form for health-related platform technologies.

Furthermore, Pacem offers services in solving technological and industrial problems and in implementing R&D projects. With its innovative solutions, it provides R&D and consultancy services in medical, electronic, embedded systems, software, and engineering fields.



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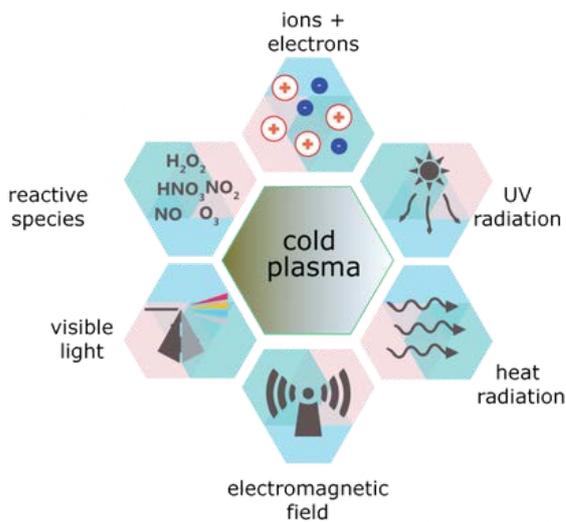


@pacemtech



# Cold Plasma

Cold atmospheric plasma is a type of plasma that occurs at low temperatures (usually at room temperature). Plasma is known as the fourth state of matter and is formed by ionizing the atoms in a gas state (partially or completely removing their electrons). In cold atmospheric plasma, the temperature of the plasma is close to the ambient temperature, which makes it useful in various applications such as medical treatments, surface treatments, and air disinfection.



Cold plasma, having a lower risk of damaging living tissues compared to high-energy plasmas, is particularly attracting interest in the field of medicine. It holds potential for use in areas such as wound healing, cancer treatment, and sterilization. Additionally, it plays a significant role in industrial processes, surface treatments, and material science applications. Cold plasma is generated with devices that operate at room temperature, thereby allowing for a broader range of applications.

## Advantages



Low-cost



Environmental friend



Enhanced application



Fast-treatment



No Antibiotics

## Applications of Cold Plasma

- Wound healing
- Cancer treatment
- Sterilization and Disinfection
- Surface modifications of materials
- Surface coating and Processing



# Cold Plasma and Vet

Cold atmospheric plasma is an innovative technology that has recently begun to be used in veterinary applications. This technology allows for various treatment and sterilization processes by using plasma at low temperatures.

## Application Advantages

1. **Accelerating Wound Healing:** Cold plasma speeds up the wound healing process, reducing the risk of infection.
2. **Anti-Inflammatory Effect:** Plasma can effectively reduce inflammation, especially in skin disorders and allergies.
3. **Low Temperature:** Cold plasma is applied without causing tissue damage.
4. **Fast and Effective:** Provides high-level antimicrobial properties in a short time.
5. **No Chemicals Required:** Safer than traditional disinfectants as it does not contain chemicals and does not require the use of any drugs.
6. **No Harm to Tissues:** Can be applied without damaging living tissues, making it particularly suitable for sensitive treatments

## Application Areas

### Dermatology

- Abrasions and pressure ulcers
- Mallenders (skin condition in horses)
- Angular cheilitis (mouth corner sores)
- Scar treatments
- Saddle sores
- Pruritus (itching)
- Problems in wound healing
- Burns
- Chronic wounds

### Surgical Operations

- Sterilizing areas before and after surgery.

### Dental Applications

- Sterilization in oral and dental health practices.



# Smart Systems



Modern Therapy, Plasma Touch: In-depth treatment, Wide Parameters and Application Areas Pacem Vet Source (CAP-Vet-Source 010121)

Model: CAP-Vet-Source 010121

Brand: Pacem Vet Source

Device Type: Cold Atmospheric Plasma, Plasma Jet

Intended Use: Wound healing, pressure ulcers, non-healing deep wounds, sterilization, anti-inflammatory treatments, surgical applications

Technical Specifications:

Power Source: Electricity (AC 110-240V, 50/60Hz)

Power Consumption: 3000 W

Operating Frequency: 100 Hz - 3kHz

Plasma Generation Technology: Dielectric barrier discharge, Plasma Jet

Output Gas: Air, Argon, Helium, Hydrogen

Output Temperature: 28 - 35°C (temperature non-damaging to tissue)

Operating Modes: Continuous, Pulsed

Power Button: Yes

Ground Electrode: Yes

Mode Selection: HMI touch screen

Certifications: CE, ISO

Biocompatibility: Yes

Application Heads: 3

User Manual: 1 piece

Electrode Apparatus: 1 piece

Power Cord: 1 piece

Warranty Certificate: 1 piece

Manufacturer Support:

Warranty Period: 2 Years

Customer Service: Rental or Sale

Technical Support: Throughout product life cycle

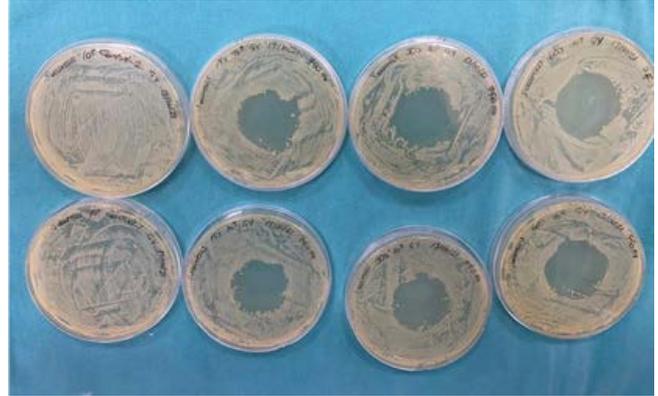


HV Output: 1kV - 40kV,  
100 - 3000Hz

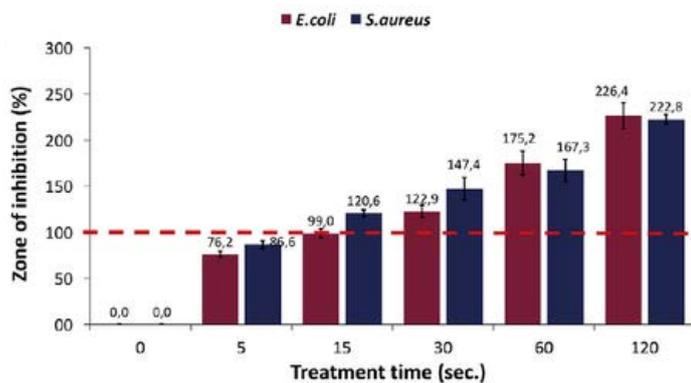
## Anti-microbial effects



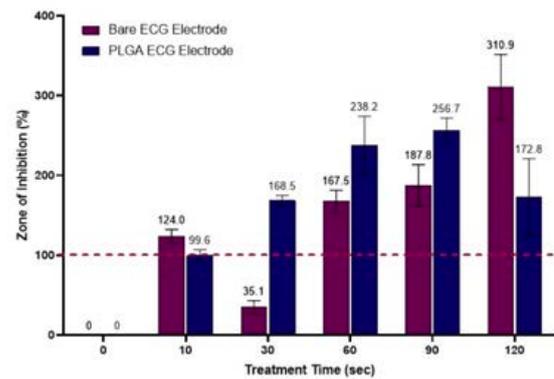
*E. coli*



*S. aureus*

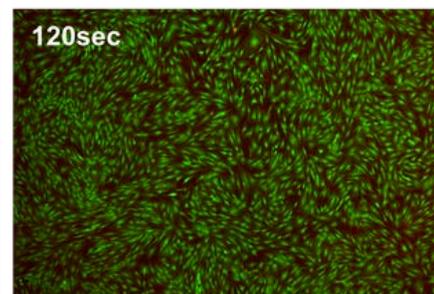
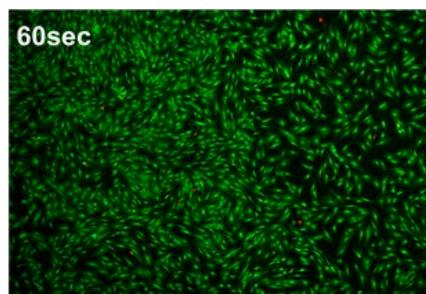
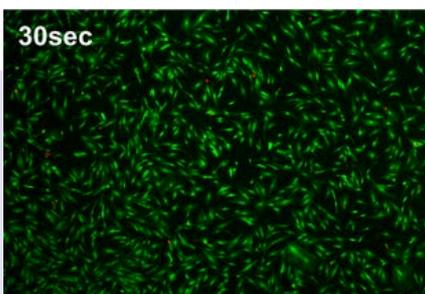
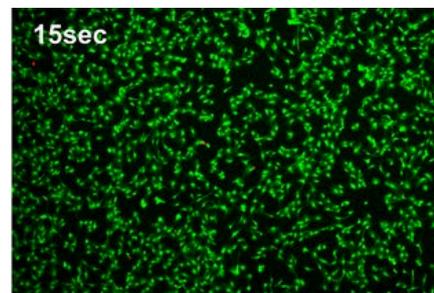
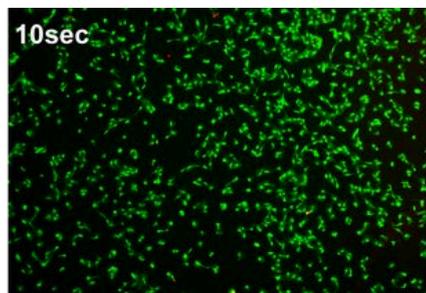
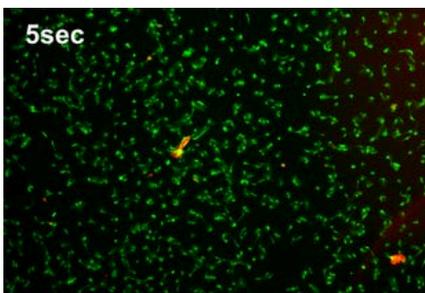


Zone of Inhibition

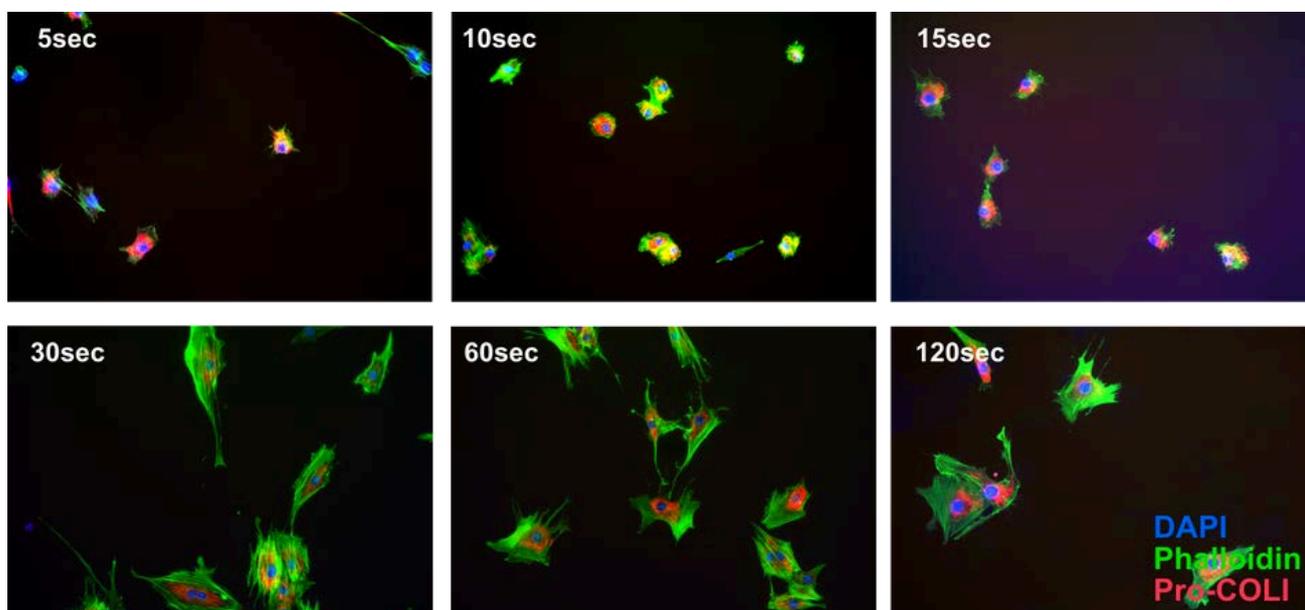


Farklı elektrotlar ile Zone of Inhibition

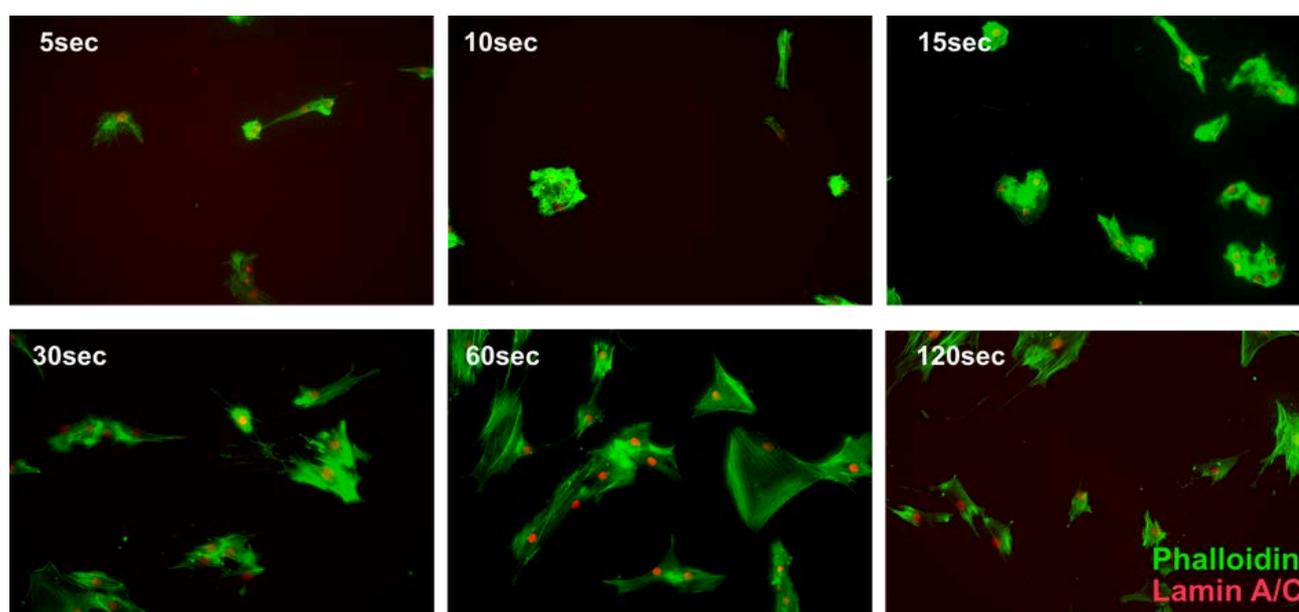
## Viability and DNA content



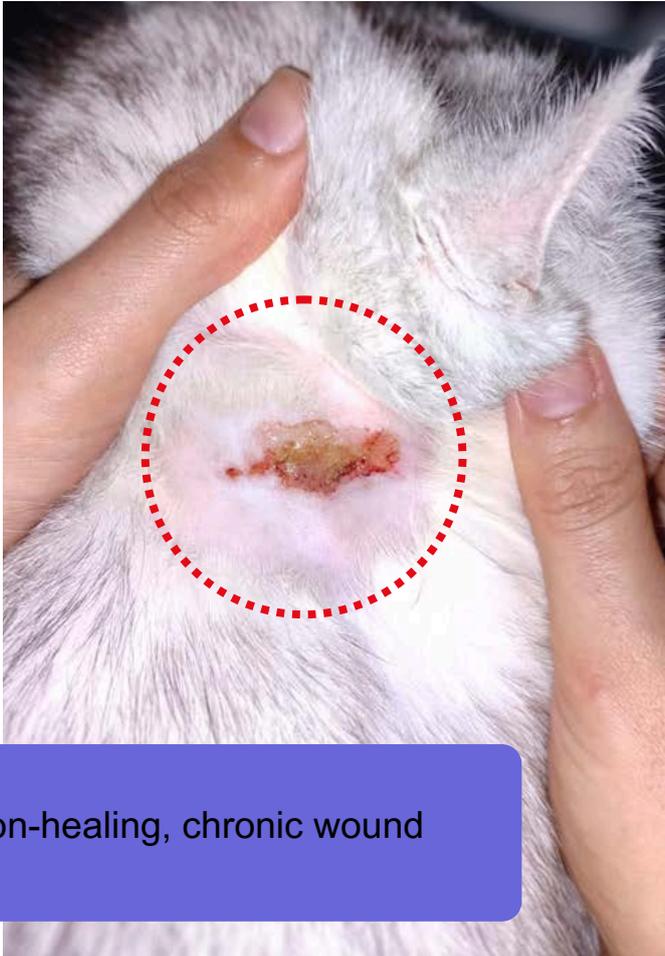
## Collagen



## Lamin/AC



# Case Studies



Non-healing, chronic wound



Before



After

Case: British Shorthair - 5 years old

Medical History: Non-healing and recurrent chronic wound

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Treatment Method: Duration: 3 days a week, 3-minute sessions - 10 days

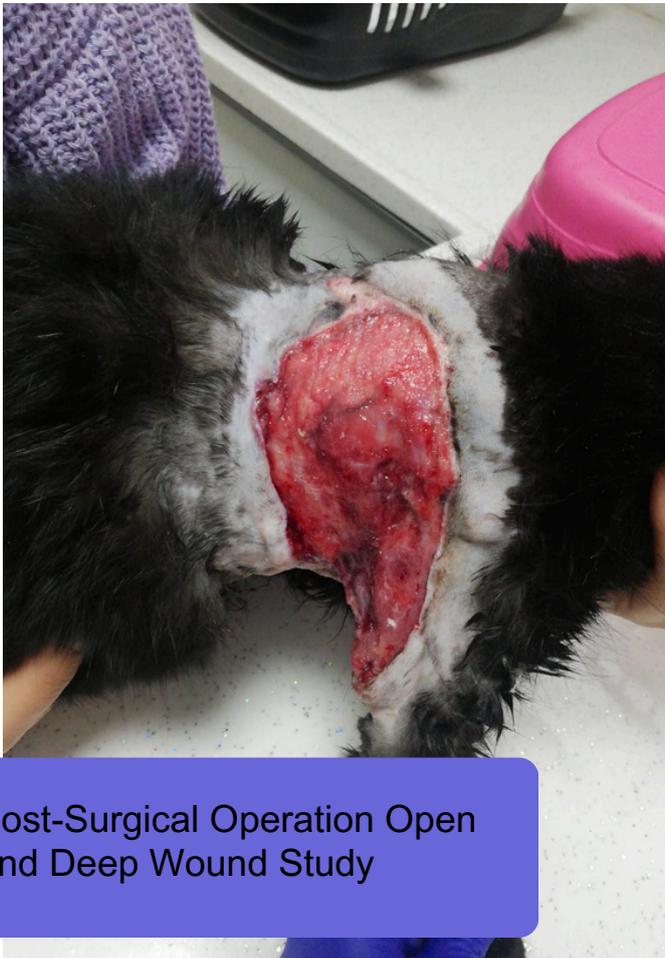
Device: MCAP-010123

Electrode: Mushroom

electrode Mode: 4kV, 700Hz

Medication use: None

# Case Studies



Post-Surgical Operation Open and Deep Wound Study



Before



After

Case: Tabby - 3 years old  
Medical History: Open wound

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Treatment Method:

Duration: 3 days a week, 3-minute sessions - 10 days

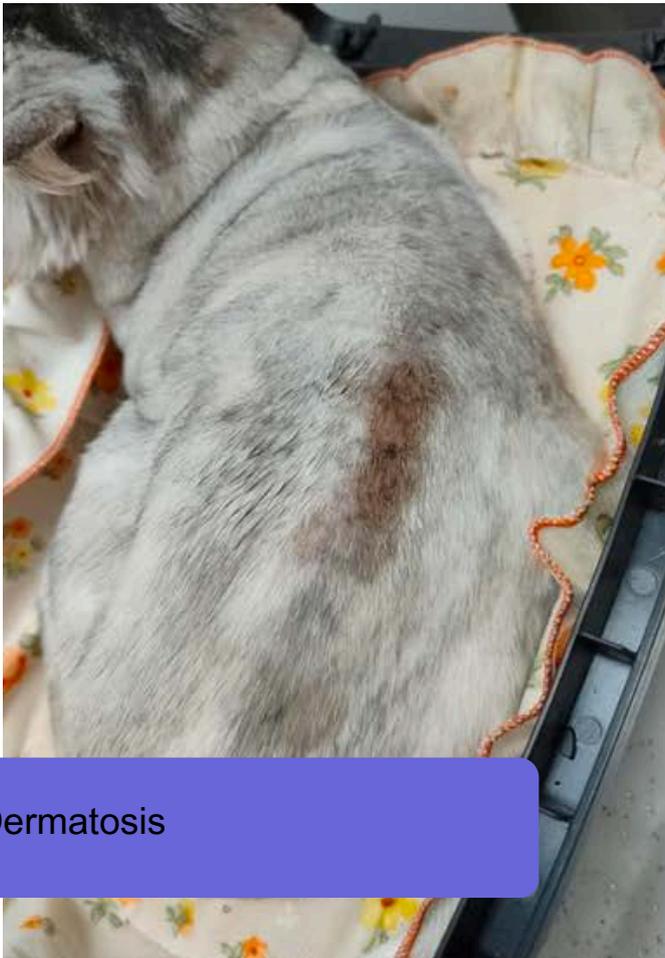
Device: CAP-Vet-Source 010121

Electrode: Mushroom electrode

Mode: 10kV, 700Hz

Medication use: Antiseptic cleaner

# Case Studies



Dermatosis



Before



After

Case: British Longhair - 1.5-2 years old  
Medical History: Recurrent eczema following shaving  
---

Treatment Method:

Duration: 3-minute sessions - 5 days

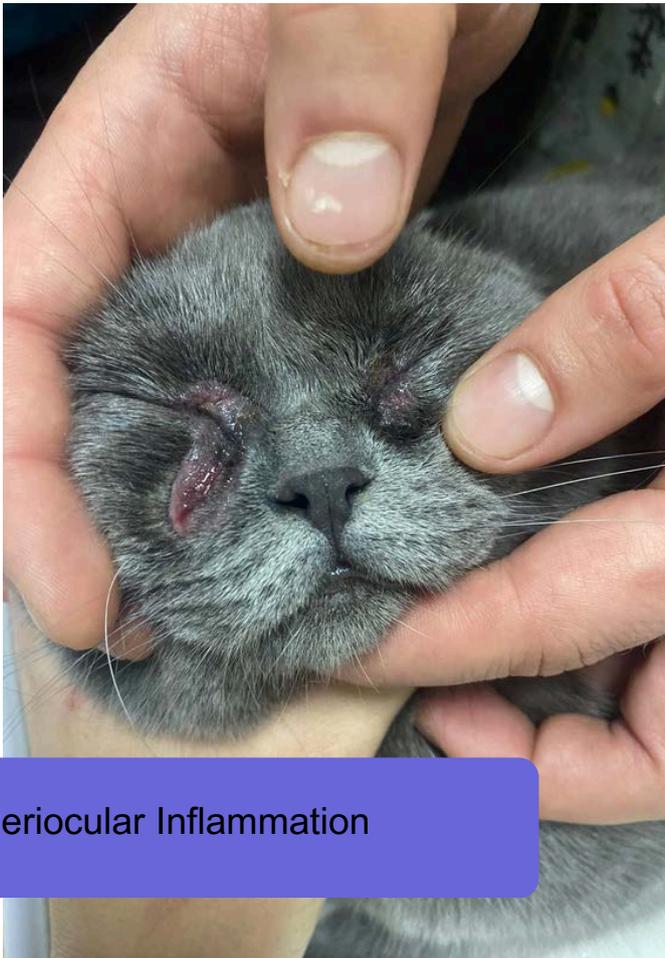
Device: MCAP-010123

Electrode: Mushroom electrode

Mode: 4kV, 700Hz

Medication use: None

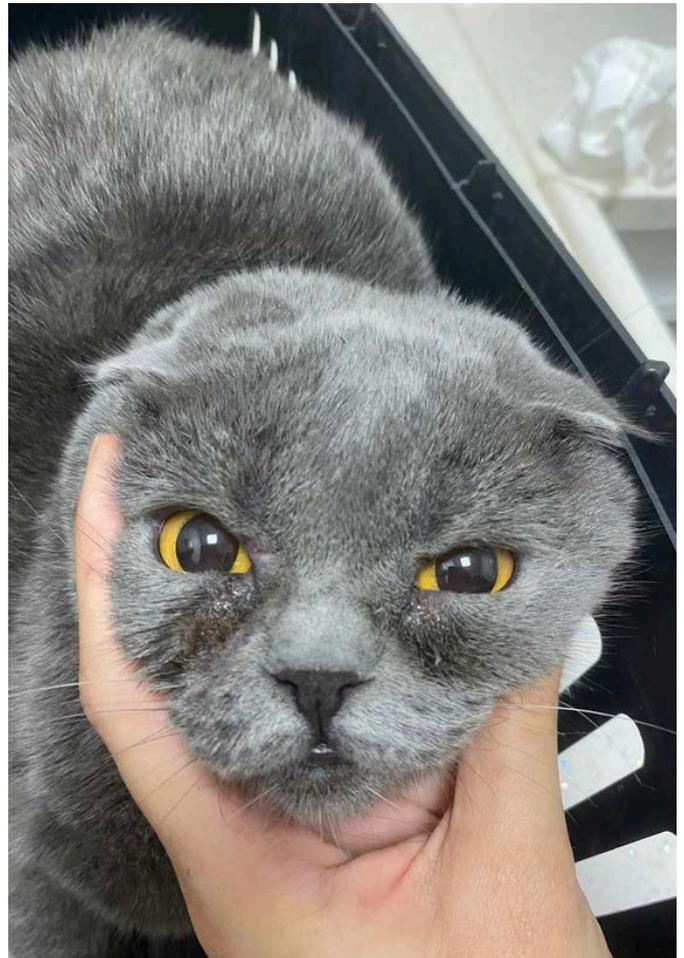
# Case Studies



Periocular Inflammation



Before



After

Case: British Longhair - 1.5-2 years old  
Medical History: Recurrent eczema following shaving  
---

Treatment Method:

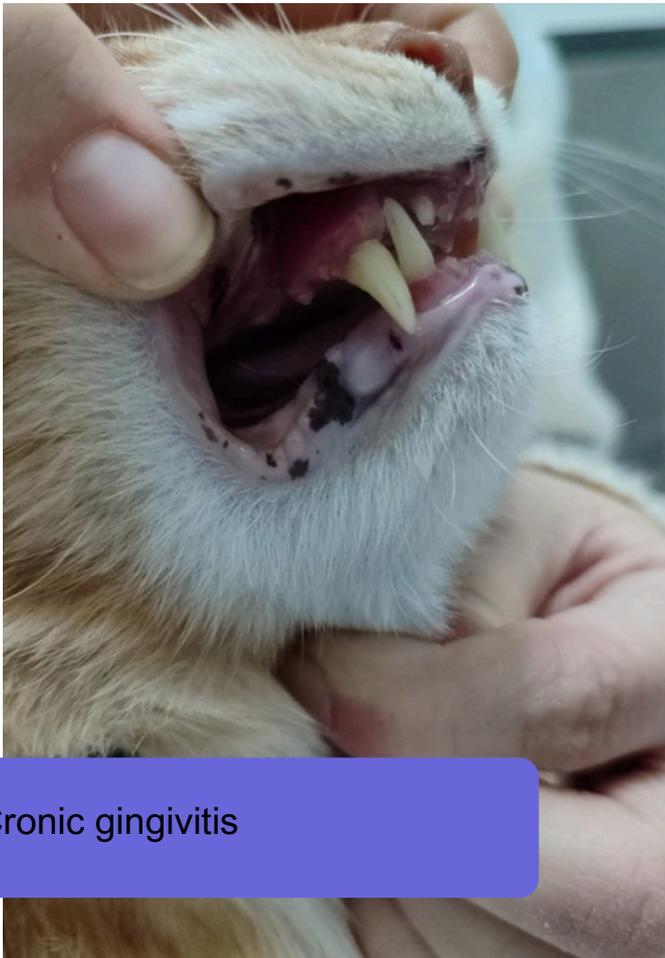
Duration: 3-minute sessions for 2 days

Device: MCAP-010123

Electrode: Mushroom electrode

Mode: 4kV, 700Hz Medication use: None

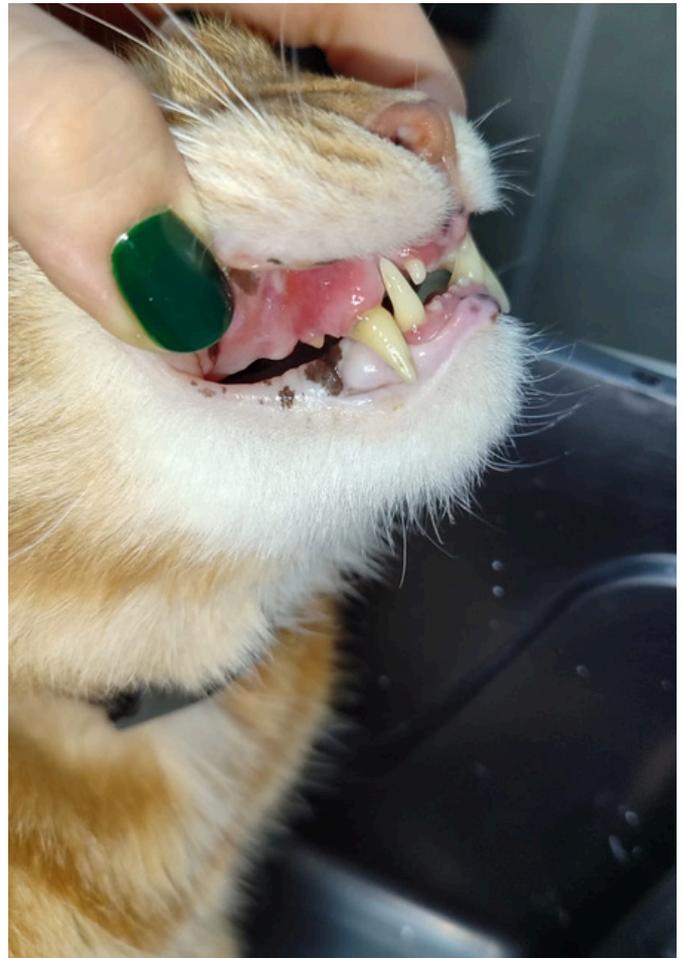
# Case Studies



Cronic gingivitis



Before



After

Case: British Longhair - 1.5-2 years old  
Medical History: Cronic gingivitis  
Treatment Method:  
Duration: 3-minute sessions for 4 days  
Device: MCAP-010123  
Electrode: Mushroom electrode  
Mode: 4kV, 700Hz Medication use: None

# Case Studies



Acute Wound



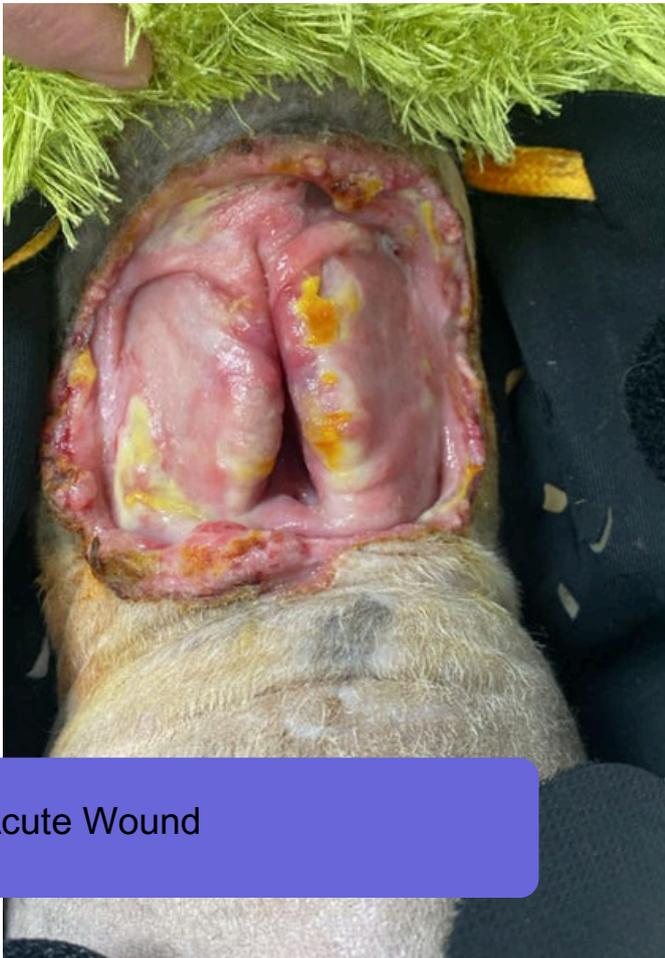
Before



After

Case: Longhair - 1.5-2 years old  
Medical History: Acute Wound  
Treatment Method:  
Duration: 3-minute sessions for 4 days  
Device: MCAP-010123  
Electrode: Mushroom electrode  
Mode: 4kV, 700Hz Medication use: None

# Case Studies



Acute Wound



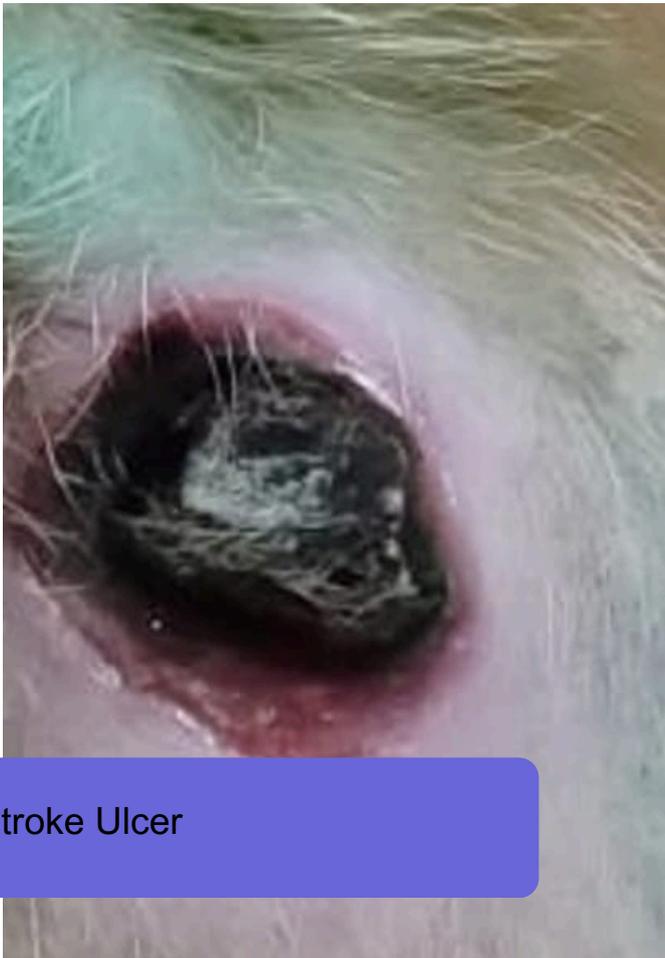
Before



After

Case: Unknown - 3 years old  
Medical History: Acute Wound  
Treatment Method:  
Duration: 3-minute sessions for 4 days  
Device: MCAP-010123  
Electrode: Mushroom electrode  
Mode: 4kV, 700Hz Medication use: None

# Case Studies



Stroke Ulcer



Before



After

Case: Unknown - 7 years old  
Medical History: Pressure Ulcer  
Treatment Method:  
Duration: 3-minute sessions for 4 days  
Device: MCAP-010123  
Electrode: Mushroom electrode  
Mode: 4kV, 700Hz Medication use: None

# Case Studies



Tissue Infection



Before



After

Case: Unknown - 10 years old

Medical History: Pressure Ulcer and tissue infection

Treatment Method:

Duration: 3-minute sessions for 3 days, treatment is going

Device: MCAP-010123

Electrode: Mushroom electrode

Mode: 4kV, 700Hz Medication use: None

# Case Studies



Tissue Infection



Before



After

Case: Unknown - 2 years old  
Medical History: Infection  
Treatment Method:  
Duration: 3-minute sessions for 14 days  
Device: MCAP-010123  
Electrode: DBD electrode  
Mode: 4kV, 700Hz  
Medication use: Physical remove

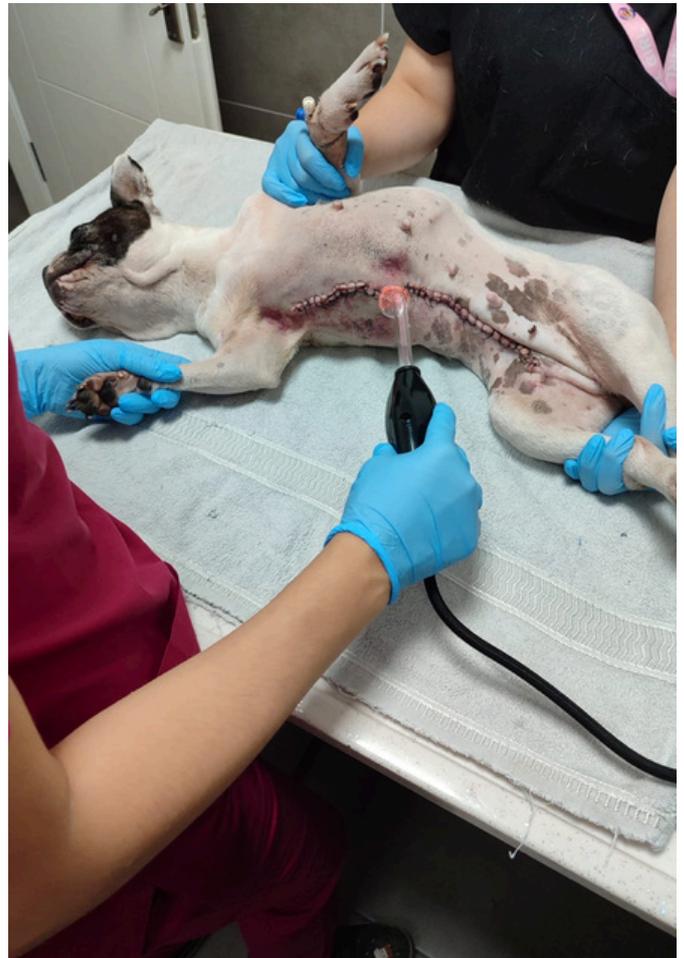
# Case Studies



Breast Cancer



Application



Application

Case: 3 years old  
Medical History: Cancer  
Treatment Method:  
Duration: 3-minute sessions for 1 day  
Device: MCAP-010123  
Electrode: Mushroom electrode  
Mode: 4kV, 700Hz  
Medication use: None

# Case Studies



Diabetic wound



Before



After

Case: Unknown - 8 years old  
Medical History: Diabetic wound  
Treatment Method:  
Duration: 3-minute sessions for 21 days  
Device: MCAP-010123  
Electrode: Mushroom electrode  
Mode: 4kV, 700Hz Medication use: None

# Case Studies



Mortal Wound



Before



After

Case: Unknown - 3 years old  
Medical History: Mortal Injury  
Treatment Method:  
Duration: 3-minute sessions for 10 days  
Device: MCAP-010123  
Electrode: Mushroom electrode  
Mode: 4kV, 700Hz  
Medication use: Yes

# Case Studies



## Chronic-necrotic tissue

Case: +5 years old

Medical History: infection from ectoparasite

Treatment Method:

Duration: 3-minute session, still going

Device: MCAP-010123

Electrode: Mushroom electrode

Mode: 4kV, 700Hz Medication use: None



**COLD**  
**FUSION**

*Advanced Care, Less Discomfort*



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