

PUBLICATIONS

The Adtec SteriPlas has been proven in over 60 peer reviewed publications and major conference presentations to demonstrate its status as the leading cold plasma medical device. Our clinical trials and publications bibliography includes renowned studies such as:

Prospective, Randomized and Placebo-Controlled Clinical Trial (RCT) to Validate Treatment Intervals of Chronic Wounds with Cold Atmospheric Plasma (CAP)
M. Moelleken, F. Jockenhöfer, C. Wiegand, J. Buer, S. Benson, J. Dissemond, JDDG 2020. <https://doi.org/10.1111/ddg.14294>

Efficacy of cold atmospheric plasma vs. diclofenac 3% gel in patients with actinic keratoses: a prospective, randomized and rater-blinded study (ACTICAP)
F. Koch, K.A. Salva, M. Wirtz, E. Hadaschik, R. Varajai, D. Schadendorf, A. Roesch. JEADV 2020. <https://doi.org/10.1111/jdv.16735>

Wound Management of Driveline Infections with Cold Atmospheric Argon Plasma - Proof of Concept.
Kremer, J., Müller, F., Heininger, A., Karck, M., Ruhparwar, A., Schmack, B. The Journal of Heart and Lung Transplantation (1249)
Vol 39, Issue 4, S488 DOI: <https://doi.org/10.1016/j.healun.2020.01.058>

Preliminary results of a new treatment strategy for relapsed LVAD-specific infections.
Rotering, H., Al Shakaki, M., Welp, H., Dell' Aquila, A.M. Ann Thorac Surg. 2020 Mar 10. pii: S0003-4975(20)30357-X. doi: 10.1016/j.athoracsur.2020.02.007

Cold atmospheric plasma and advanced negative pressure wound therapy - Treatment concept for complicated wounds in cardiac surgery.
Rotering, H., Hansen, U., Welp, H. et al. Z Herz- Thorax- Gefäßchir (2020) 34: 52

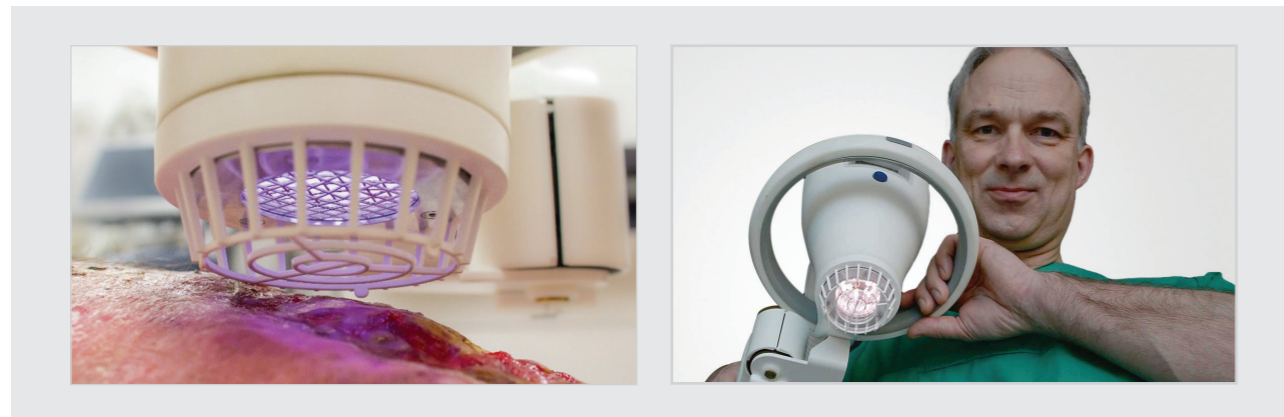
Randomized placebo-controlled clinical trial showed cold atmospheric argon plasma relieved acute pain and accelerated healing in herpes zoster.
G. Isbary, T. Shimizu, J.L. Zimmermann, J. Heinlin, S. Al-Zaabi, M. Rechfeld, G.E. Morfill, S. Karrer, W. Stolz, Clinical Plasma Medicine, Volume 2, Issue 2, December 2014, Pages 50-55

Cold atmospheric argon plasma treatment may accelerate wound healing in chronic wounds: Results of a retrospective in vivo randomized controlled study.
Isbary G., Stolz W, Shimizu T, Monetti R, Bunk W, Schmidt H-U, Morfill GE, Klaempfl TG, Steffes B, Thomas HM, Heinlin J, Karrer S, Landthaler M, Zimmermann JL
Clinical Plasma Medicine 2013 Dec; 1(2):25-30

Randomized placebo-controlled human pilot study of cold atmospheric argon plasma on skin graft donor sites.
Heinlin J, Zimmermann JL, Zeman F, Bunk W, Isbary G, Landthaler M, Maisch T, Monetti R, Morfill, GE, Shimizu T, Steinbauer J, Stolz W, Karrer S. Wound Repair Reg 2013

Successful and Safe Use of 2 Min Cold Atmospheric Argon Plasma in Chronic Wounds: Results of A Randomized Controlled Trial.
Isbary, G., J. Heinlin, T. Shimizu, J. L. Zimmermann, G. Morfill, H-U. Schmidt, R. Monetti, B. Steffes, W. Bunk, Y. Li, T. Klaempfl, S. Karrer, M. Landthaler and W. Stolz., British Journal of Dermatology, 2012. 167(2): p. 404-10.

A first prospective randomized controlled trial to decrease bacterial load using cold atmospheric argon plasma on chronic wounds in patients.
G. Isbary, G. E. Morfill, H-U. Schmidt, M. Georgi, K. Ramrath, J. Heinlin, S. Karrer, M. Landthaler, T. Shimizu, B. Steffes, W. Bunk, R. Monetti, J. L. Zimmermann, R. Pompl and W. Stolz, British J. Dermatol. 163 (1), 78-82 (2010)



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BR-SP-003



Cold Plasma Medical Device

Proven antibacterial efficacy and accelerated healing for the treatment of wounds, surgical site infections and dermatological conditions



**SUCCESSFULLY DESTROYS BACTERIA PROTECTED WITHIN BIOFILM
HARMLESS TO MAMMALIAN CELLS**

**QUICK, PAINLESS AND EFFECTIVE
2 MINUTE TREATMENT TIME**

**COLD PLASMA IS THE FOURTH STATE
OF MATTER AND IS FORMED WHEN
ENERGY IS APPLIED TO A GAS.**

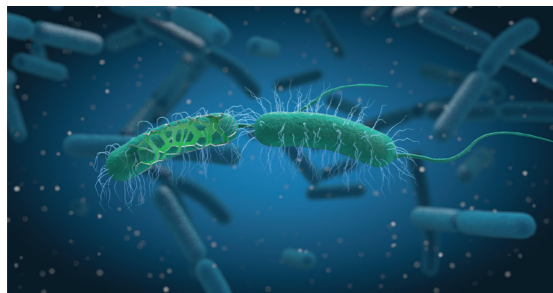
Our reliable and consistent argon cold plasma contains a cocktail of important bactericidal components including Photons, Ions, Electrons, OH-Radicals and UV light.

HOW IT WORKS?

Physical Mode Of Action

When placed over the treatment area, the cold plasma agents bombard the bacterial cells which ruptures their cellular structure. This successfully destroys bacteria even if they are protected within biofilm. Scientific studies have demonstrated that bacteria are unlikely to develop a primary or secondary resistance to cold plasma.

ANTIBACTERIAL EFFECTIVENESS



BENEFITS

- No side effects reported
- A generous 12cm² treatment area
- A quick 2 minute treatment time
- Painless and effective
- Proven antibacterial efficacy
- Effective against bacteria protected within biofilm
- A unique physical mode of action
- Accelerates healing
- Postulated as an alternative to antibiotics



CLINICAL EVIDENCE

Wounds

The Adtec SteriPlas was the first medical device worldwide to test the efficacy of cold plasma on wounds in clinical trials. Our collection of clinical trials has documented the antibacterial efficacy, accelerated healing and reduction in pain for patients with acute or problematic and non-healing wounds. Our studies have also shown that the Adtec SteriPlas has the advantage over conventional therapies such as antibiotics for being far more effective as a treatment alternative. It has shown to reduce the accumulation of slough and exudate and prevent the need for foot and leg amputations.

Surgical Site Infections

Deep sternal infections and infected drivelines are often infected with biofilm which complicates treatment options. It is difficult to deliver antibiotics to these sites and antimicrobial dressings are already unable to be wrapped around an infected driveline cavity so how can we treat this?

Our cold plasma can travel down the gaps in crevices towards the source of biofilm and destroy the bacteria protected within. This concept has been proven in publications using the Adtec SteriPlas and widely used by Cardiologists to treat such complex patients.

Dermatology

Tested and proven in dermatology clinical trials and studies for effective healing of skin lesions and conditions which also offers patients a safer, quicker and painless alternative to conventional therapies. This includes the skin conditions of acne and actinic keratoses. Whilst side effects are commonly observed with conventional therapies, the Adtec SteriPlas has demonstrated no side effects due to its safe and perfectly engineered system.

Plasma Treatment Head

Our patented plasma torch where the cold plasma is released towards the treatment site. This features a unique countdown display for remote control of the system from the patient bedside.

Adtec Sensor Module

Continuously monitors cold plasma temperature for safe and effective treatment.



Ergonomic handrail

Allows positioning for convenient patient access.

Balanced Treatment Arm

Designed for effortless adjustment of the SteriPlas treatment head. Long reach arm extends up to 163cm with ease and smoothness, ensuring position remains fixed over patient treatment area.

SteriPlas Control Screen

For treatment regime and configuration.

Adtec SteriPlas Console

Manoeuvrable medical device with lockable easy glide wheels, designed for transports between treatment rooms.

