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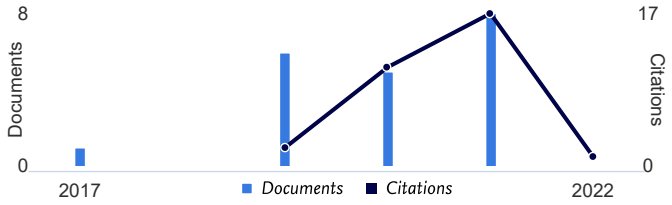

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Hidayati, N., Fuad, H., Munandar, H., ...Darmawati, S., Ethica, S.N.

IOP Conference Series: Earth and Environmental Science, 2021, 743(1), 012007

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When plasma jet is effective for chronic wound bacteria inactivation, is it also effective for wound healing?

Darmawati S.[a, m], Rohmani A.[b], Nurani L.H.[c, m], Prastiyanto M.E.[a], Dewi S.S.[a], Salsabila N.[a], Wahyuningtyas E.S.[d, l, m], Murdiya F.[e], Sikumbang I.M.[f, l], Rohmah R.N.[g, m], Fatimah Y.A.[h], Widiyanto A.[h]

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Purpose: This investigation aimed to compare the effectiveness of two styles of plasma jet treatment (i.e., contact and non-contact styles) for two biological materials, namely, wound related bacteria and acute wounds. Method: An atmospheric plasma jet operated at a frequency of 18.32 kHz and high AC

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Cold atmospheric plasma therapy in wound healing
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Nurani, L.H. , Nasruddin, N. , Darmawati, S.
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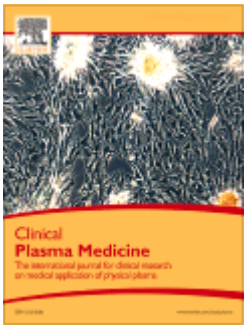

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When plasma jet is effective for chronic wound bacteria inactivation, is it also effective for wound healing?

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Clinical Plasma Medicine
Volume 14, June 2019, 100083

Original research article

Cold physical plasma-induced oxidation of cysteine yields reactive sulfur species (RSS)

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Received 28 May 2018, Revised 14 February 2019, Accepted 8 March 2019, Available online 9 March 2019.

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Abstract

Purpose

Studying plasma liquid chemistry can reveal insights into their biomedical effects, i.e. to understand the direct and indirect processes triggered by the treatment in a model or clinical application. Due to the reactivity of the sulfur atom, thiols are potential targets for plasma- derived reactive species. Being crucial for protein function and redox signaling pathways, their controllable modification would allow expanding the application range. Additionally, models to control and standardize CAP sources are desired tools for plasma source design.

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Clinical Plasma Medicine
Volume 14, June 2019, 100084

Original research article

Safety evaluation of the plasma on ocular surface tissue: An animal study and histopathological findings

Farhad Nejat, Nazanin-Sadat Nabavi, Mohammad-Amin Nejat, Hossein Aghamollaei, Khosrow Jadidi

Vision Health Research Center, Semnan University of Medical Sciences, Semnan, Iran

Received 24 November 2018, Revised 3 March 2019, Accepted 13 March 2019, Available online 14 March 2019.

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Abstract

Purpose

The plasma soft surgery is as an alternative to invasive surgical cosmetic procedures that can reduce the recovery time and possible complications after surgery. Due to the sensitivity of ocular surface tissue and the potential of the plasma, it can be evaluated to treat some ocular surface disorders. Accordingly, we evaluated the safety of the cold plasma on the ocular surface tissue in three areas located in the cornea, limbus, and conjunctiva.

Methods

Nine adult male New Zealand albino rabbits which divided into three groups were used for experiments. The left eye of each rabbit was chosen for test and the right eye was as the control. Experiments were performed on three ocular surface areas under the influence of the plasma. For this purpose, the plasma was created by Plexr device in continues mode and low power level (white handpiece; 0.7 W) was utilized at 0.7 s intervals using a 22-gauge needle. For evaluation of plasma safety, ocular surface i

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