



Medizinisches Ozon Literaturliste 06/2024 Medical ozone literature list 06/2024

New Publications / Neue Publikationen

with cooperation of our association / Unter Mitwirkung unserer Gesellschaft

- Viebahn-Haensler, R.; León Fernández, O.S. Mitochondrial Dysfunction, Its Oxidative Stress-Induced Pathologies and Redox Bioregulation through Low-Dose Medical Ozone: A Systematic Review. *Molecules* 2024, 29, 2738. <https://doi.org/10.3390/molecules29122738>
- León Fernández, O.S.; Oru, G.T.; Viebahn-Haensler, R.; López Cabreja, G.; Serrano Espinosa, I.; Corrales Vázquez, M.E. Medical Ozone: A Redox Regulator with Selectivity for Rheumatoid Arthritis Patients. *Pharmaceuticals* 2024, 17, 391. <https://doi.org/10.3390/ph17030391>
- Renate Viebahn-Haensler, Olga León Fernández
Ozone in Medicine. The Low-Dose Ozone Concept. The Redox-Bioregulatory Effect as Prominent Biochemical Mechanism and the Role of Glutathione. *Ozone Sci Eng* 46, 267-279-424 (2024), <https://doi.org/10.1080/01919512.2023.2291756>
- Renate Viebahn-Haensler, Olga Sonia León Fernández
Ozone as Redox Bioregulator in Preventive Medicine: The Molecular and Pharmacological Basis of the Low-Dose Ozone Concept—A Review *Int. J. Mol. Sci.* 2023, 24, 15747. <https://doi.org/10.3390/ijms242115747>
- Olga Sonia León Fernández, Gabriel Takon Oru, Renate Viebhan-Hänsler, Gilberto López Cabreja, Irainis Serrano Espinosa, Elizabeth García Fernández, Medical ozone arrests oxidative damage progression and regulates vasoactive mediator levels in older patients (60-70 years) with oxidative etiology diseases *Front. Physiol.*, 03 November 2022 <https://www.frontiersin.org/articles/10.3389/fphys.2022.1029805/full>
- Ozon in der Medizin
Wissenschaft-Guidelines-Behandlungskonzepte
4. Auflage MedO3 Publisher 2022 ISBN 978-3-949499-12-8
Free for members, see under „books and videos“

ABSTRACT

Das Niedrig - Dosis Ozonkonzept als Bioregulator zellulärer Antioxidantien und als Immunmodulator Die Ozon-Sauerstoff-Therapie in Form des Niedrig - Dosis - Konzeptes hat sich als fundiertes komplementärmedizinisches Verfahren etabliert. Als wichtigste systemische Applikationsformen erweisen sich die Große Ozon-Eigenblutinfusion und die Rektale Verabreichung als evidenzbasiert gemäß der internationalen Klassifizierung; Wirkmechanismen und Pharmakologie sind gut erforscht, dokumentiert und international publiziert (peer reviewed), womit die Indikationen ihr wissenschaftliches Fundament erhalten: Chronisch entzündliche Erkrankungen und solche, die mit einer chronischen Entzündung einhergehen

- Angiopathien und arterielle Durchblutungsstörungen
- Rheumatoide Arthritis, Schmerztherapie
- Hepatitiden
- Komplementäre Onkologie auf der Grundlage der Guidelines der Ozontherapie werden

Behandlungskonzepte vorgestellt: Indikationen, Applikationen, Dosierungen, Ozonkonzentrationen, Behandlungsfrequenzen; ebenso die Grundlagen in gestraffter Form sowie Pharmakodynamik und Pharmakokinetik des Ozons.



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Renate Viebahn-Haensler, Olga Sonia León Fernández
The Low-Dose Ozone Concept and its Pharmacology in Prevention and Convalescence
Önlemede ve İyileşmede Düşük Doz Ozon Konsepti ve Farmakolojisi

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April 2022, Ankara-Türkiye

ABSTRACT

Systemically administered ozone with its mild oxidative eustress, able to upregulate antioxidative enzymes and to modulate the immune response e.g. "cytokine storm" is recommended as part of a complementary treatment concept in chronic inflammatory, long lasting processes with high oxidative stress and in diseases which are accompanied by an redox imbalance, rather than in the acute stages. To restore the glutathione equilibrium GSH/GSSG the low-dose ozone concept offers a strategy in redox medicine as shown here in primary and secondary prevention and convalescence. To illustrate the main pharmacological effects and to follow the treatment success we focus to the following refence substances: GSH (reduced glutathione), γGT (gamma glutamyl transferase) or SOD (superoxide dismutase) as protection markers and one or two parameters of stress markers: MDA (malondialdehyde). Especially liver and kidneys are prevented from oxidative stress, regularly GSH increases, MDA decreases. In post acute inflammations (convalescence) we find the same biochemical mechanisms, summarized in virus diseases and diabetic angiopathy.

Keywords: Ozone therapy; bioregulation; glutathione balance; redox balance

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<https://www.turkiyeklinikleri.com/journal/geleneksel-ve-tamamlayici-tip-ozel-konular/959/en-index.html>

□

Renate Viebahn-Haensler, Olga Sonia León Fernández
„Ozone In Medicine. The Low-Dose Ozone Concept and Its Basic Biochemical Mechanisms of Action In Chronic Inflammatory Diseases“ Int. J. Mol. Sci. 2021, 22, 7890.
<https://doi.org/10.3390/ijms22157890>

Olga S. León Fernández, Gabriel Takon Oru1, Renate Viebhan Hansler, Gilberto López Cabreja, Irainis Serrano Espinosa, Juan Carlos Polo Vega and Elizabeth García Fernández
“Medical Ozone: The Pharmacological Mechanisms Accounting for its Effectiveness against COVID-19/SARS-COV-2“ Clin Res & Rev. 2021; 5(3): 1-10.
<https://scivisionpub.com/pdfs/medical-ozone-the-pharmacological-mechanisms-accounting-for-its-effectiveness-against-covid19sarscov2-1581.pdf>

□

Lizette Gil-del-Valle, Olga Elena López-Fernández, Joniel Arnoldo Sánchez- Márquez, Zullyt Zamora-Rodríguez et al. „Amelioration of symptoms and oxidative stress in hospitalized convalescent post sars-cov-2 patients treated with rectal ozone therapy and nutritional supplementation IJMPR 2020, 4(6), 94-107
https://ijmpronline.com/admin/assets/article_issue/1609153795.pdf



- Olga Sonia Leon Fernandez; Gabriel Takon Oru; Juan Carlos Polo Vega; Elizabeth Garcia Fernandez; Renate Viebahn-Hänsler; Roberto Torres-Carballeira; Gilberto Lopez Cabreja; Ramona Marzo Mendez „Ozone + Arthroscopy: Improved Redox Status, Function and Surgical Outcome in Knee Osteoarthritis Patients” Int J Inn Surg 2020; 2 (1), 1011
<https://meddocsonline.org/international-journal-of-innovative-surgery/ozone-arthroscopy-improved-redox-status-function-and-surgical-outcome-in-knee-osteoarthritis-patients.pdf>
- Viebahn-Haensler, Renate, Olga Sonia León Fernández 2020
„Ozone in Medicine. From Science to Guidelines and Treatment Concepts”
“ODREI publisher” Dr. J. Hänsler GmbH D-76473 Iffezheim, Germany, ISBN 978-3-934181-07-6
- Clavo, Bernardino, Francisco Rodríguez-Esparragón , Delvys Rodríguez-Abreu, Gregorio Martínez-Sánchez, Pedro Llontop , David Aguiar-Bujanda, Leandro Fernández-Pérez and Norberto Santana-Rodríguez 2019
“Modulation of Oxidative Stress by Ozone Therapy in the Prevention and Treatment of Chemotherapy-Induced Toxicity: Review and Prospects” Antioxidants 2019, 8, 588
<https://www.mdpi.com/2076-3921/8/12/588>
- Oru, Gabriel Takon, Renate Viebahn-Haensler, Elizabeth García Fernández, Daniel Alvarez Almiñaque, Juan Carlos Polo Vega, Beatriz Tamargo Santos, Gilberto López Cabreja, Irainis Serrano Espinosa, Nilda Tabares Nápoles, Olga Sonia León Fernández 2019
„Medical Ozone Effects and Innate Immune Memory in Rheumatoid Arthritis Patients Treated with Methotrexate+Ozone after a Second Cycle of Ozone Exposure”
Oru GT, et al. Chron Pain Manag 2: 114. DOI: 10.29011/2576-957X/100014
- Gabriel Takon Oru, Renate Viebhan-Haensler, Yanet Hernández Matos, Daylin Díaz Rodríguez, Mayté Casanova Orta and Olga Sonia León Fernández 2018
„Medical ozone prevents inflammatory effects from carrageenan-induced knee joint synovitis in rats through A1adenosine receptor, as well as lipid and protein oxidative damages”
Journal of Scientific Research and Studies Vol. 5(3), pp. 65-72
<http://www.modernrespub.org/jsrs/index.htm>
- Takon Oru, G. Viebahn-Haensler, R. López Cabreja, G. Serrano Espinosa, I. Tamargo Santos, B. Polo Vega, JC. Sánchez Sintas, S. León Fernández, OS.
“Medical Ozone Reduces the Risk of GGT and Alkaline Phosphatase Abnormalities and Oxidative Stress in Rheumatoid Arthritis Patients treated with Methotrexate”
SM J Arthritis Res. 2017; 1 (1): 1004
<https://smjournals.com/arthritis-research/fulltext/smjar-v1-1004.php>
- [Renate Viebahn-Hänsler](#), [Olga Sonia León Fernández](#) & [Ziad Fahmy](#)
- „Ozone in Medicine: Clinical Evaluation and Evidence Classification of the Systemic Ozone Applications, Major Autohemotherapy and Rectal Insufflation, According to the Requirements for Evidence-Based Medicine”
Ozone: Sci. Eng. July 2016
<http://www.tandfonline.com/doi/abs/10.1080/01919512.2016.1191992>
- Olga Sonia León Fernández, Renate Viebahn-Haensler, Gilberto López Cabreja, Irainis Serrano Espinosa, Yanet Hernández Matos, Liván Delgado Roche, Beatriz Tamargo Santos, Gabriel Takon Oru, Juan Carlos Polo Vega M
„Medical ozone increases methotrexate clinical response and improves cellular redox balance in patients with rheumatoid arthritis ” European Journal of Pharmacology July 2016
<http://dx.doi.org/10.1016/j.ejphar.2016.07.031>



□

Renate Viebahn-Hänsler, Olga Sonia León Fernández, Ziad Fahmy

„Ozone in medicine: The low-dose ozone concept.

Guidelines and treatment strategies“

Ozone Sci Eng 34, 408-424 (2012)

<http://www.tandfonline.com/doi/full/10.1080/01919512.2012.717847#.U90hPFbB4v4>

A

Alexandre, A. Coro, L. Azuelos, A. Buric, J. Salgado, H. Murga, M. Marin, F. Giocoli, H.

“Intradiscal injection of oxygen-ozone gas mixture for the treatment of cervical disc herniations”

Acta Neurochir 92 (2005) 79-82

□

Alexandre A, Corò L, Paradiso R, Dall’Aglio R, Alexandre AM,

Fraschini F, Spaggiari PG,

“Symptomatic spinal degenerative pathologies. Clinical results with the application of conservative biochemical treatments”

Ozone Sci Eng 34, 459-468 (2012)

□

Andreula, C. Simonetti, L. De Santis, F. Agati, R. Ricci R. Leonardi, M.

“Minimally invasive oxygen-ozone therapy for lumbar disc herniation”

Am J Neuroradiol 24 (2003)

□

Al-Dalain, SM, Gregorio Martinez, EDUARDO CANDELARIO-JALIL, Silvia Menendez, LAMBERTO RE, Attila Guiliani and Olga Sonia León

“Ozone Treatment Reduces Markers of Oxidative and Endothelial Damage in an Experimental Diabetes Model in Rats”.

Pharmacological Research 44 (2001) 391-396

□

Ajamieh, H, Nelson MERINO, EDUARDO CANDELARIO-JALIL, Silvia Menendez, Gregorio Martinez-SANCHEZ, LAMBERTO RE, Attila Guiliani and Olga Sonia León

“Similar Protective Effect of Ischaemic and Ozone Oxidative Preconditioning in Liver Ischaemia/Reperfusion Damage”

Pharmacological Research 45 (2002) 333-339

□

Ajamieh, HH, Jorge Berlanga, Nelson Merino, Gregorio M SANCHEZ, Anna M. Carmona, Silvia M Cepero, Attila Guiliani, LAMBERTO RE, and Olga Sonia León

“Role of Protein Synthesis in the Protection conferred by Ozone-Oxidative-Preconditioning in Hepatic Ischemia/Reperfusion”

Transplant International 18 (2005) 604-612

□

Ajamieh, HH, S Menendez, G Martinez-SANCHEZ, E CANDELARIO-JALIL, L RE, Jorge Berlanga, Nelson Merino, A Guiliani and Olga Sonia León FERNANDEZ

„Effects of Ozone Oxidative Preconditioning on Nitric Oxide Generation and Cellular Redox Balance in a Rat Model of Hepatic Ischemia-Reperfusion“

Liver International 24 (2004) 55-62

□

Ajamieh, H.H. Menendez, S., Nerino, N., Martinez-Sanchez, G. Re, L., Leon, O.

“Ischemic and ozone oxidative preconditioning in the protection against hepatic ischemic-reperfusion injury”

Ozone. Sci. Eng. 25 :241-250 (2003)

□

Aubourg, P.

"Colibacillose aigue, colibacillose chronique: Ameliorations cliniques notables par un traitement d'ozone."

Bull. med. Paris 140 (1936), 644-654



B

- Balkanyi, A. „Tonanalgetische Systeme Einsatz von Ozon bei verspannter Muskulatur“ (1999) in „Ozon-Handbuch. Grundlagen, Prävention, Therapie“ Viebahn-Hänsler, Knoch (Hrsg), ecomed, Landsberg (1995-2006).
-
- Balkanyi, A. „Herpes zoster- ein komplementärmedizinisches Behandlungskonzept“ (2002) in „Ozon-Handbuch. Grundlagen, Prävention, Therapie“ Viebahn-Hänsler, Knoch (Hrsg), ecomed, Landsberg (1995-2006).
-
- Barakat, SAE, AA El-Nasr, SS Thabet F El-Ebiary, NKM Saleh
Ozone Therapy in Bilateral Ovariectomy (2006) in press
-
- Barakat, SAE, NKM Saleh, SS Thabet, A EL- MISSIRI, MH BADAWY
Protektiver Mechanismus des Ozons zur Verhinderung von Reperfusionsschäden am Herzen in „Ozon-Handbuch. Grundlagen, Prävention, Therapie“
R. Viebahn-Hänsler, H.G. Knoch (Hrsg), ecomed-Verlag 2006
-
- Bayer, R, Serdar, C., Maser, J.
"Analysis of erythrocyte flexibility by means of laser diffraction: effects of mechanical stress, photosensitization and ozone."
Spie Vol 1884/29 (Proceedings) (1993)
-
- Beck, E.G., Waßer, G.H., Viebahn-Hänsler, R.
"Ozontherapie in Wissenschaft und Empirie"
Z. Komplement. Medizin 5 (1998), 61-75
-
- Barber, E, S Menedez, O S León, M O Barber, N Merino, J L Calunga, E Cruz and V Bocci
"Prevention of Renal Injury after Induction of Ozone Tolerance in Rats Submitted to Warm Ischaemia"
Med Inflamm 8 (1999) 37-41
-
- Bocci, V., Paulesu, L.
"Studies on the biological effects of ozone. 1. Induction of interferon in human leucocytes."
Haematologica 75 (1990) 510-515
-
- Bocci, V., Luzzi, E. et al.
"Studies on the biological effects of ozone: 4. Cytokine production and glutathione levels in human erythrocytes."
Journal of Biological Regulators and Homeostatic Agents 7 (1993) 133-138
-
- Bocci, V. "Immunologische Aspekte"
in Beck, E.G., Viebahn-Hänsler, R. (Hrsg.)
Ozon-Handbuch, ecomed Landsberg (1995)
-
- Bocci, V.
"Die senile Makulopathie und verwandte Erkrankungen"
in Beck, E.G., Viebahn-Hänsler, R. (Hrsg.) Kopf
Ozon-Handbuch, ecomed Landsberg, 2. Erg. (1997)
-
- Bocci, V., Di Paolo, N., Garosi, G., Aldinucci, C., Borelli, E., Valacchi, G., Capelli, F., Guerri, L., Gavioli, G., Corradeschi, F., Rossi, R., Giannerini, F., Di Simplicio, P.
"Ozonation of blood during extracorporeal circulation. I. Rationale, methodology and preliminary studies."
Int J Artif Organs 22 : 645-51, (1999)



- BOCCI, V, LARINI, A, MICHELI, V
Restoration of Normoxia by Ozone Therapy May Control Neoplastic Growth: A Review and a Working Hypothesis
J Alt Compl Med 11 (2005) 257-265
- Bocci, V. "Ozone. A new Medical Drug" Springer, Dordrecht,
The NT. 2005 Bocci, V. Aldinucci, C. Mosci, F. Carraio, F. Valcchi, G.
"Ozonation of human blood induces a remarkable upregulation of heme oxygenase-1 and heat stress proteine-70"
Med Inflamm (2007) 26785-26790
- Bocci, V., I. Zanardi, V. Travagli „Oxygen/Ozone as a Medical gas mixture. A Critical evaluation“
Medical Gas Research 1: 6 (2011)
- Buckley et al. "Ozone and Human Blood." Arch.Environ.Health 30 (1975) 40-43

C

- Calunga, J.L., Menendez, S., Barber, E., Merino, N. Cruz, E.
"Ozone Biological response in kidneys of rats submitted to warm ischemia"
Ozone:Science and Engineering, 25:233-240 (2003)
- Calunga José Luis, Silvia Menéndez, Rodolfo León, Soulien Chang, Dailen Guanche, Alberto Balbín, José Zayas, Pedro García
"Application of Ozone Therapy in Patients with Knee Osteoarthritis"
Ozone Sci Eng 34, 469-475 (2012)
- Candelario-Jalil, E, S. Mohammed- Al-Dalain, O. S. Leon Fernandez, S. Menendez, .G Perez-Davison, N. Merino, S. Sam and H.H. Ajamieh
"Oxidative Preconditioning Affords Protection Against Carbon Tetrachloride-induced Gylgen Depletion and Oxidative Stress in Rats"
J Appl Toxicol 21 (2001) 297-301
- Clavo, B., Perez, J. L., Lopez, L., Suarez, G., Lloret, M., Rodriguez, V., Macias, D., Santana, M., Morera, J., Fiuza, D., Robaina, F., Gunderoth, M. "Effect of ozone therapy on muscle oxygenation" J. Altern. Complement Med. 9, 1-256 (2003).
Clavo, B. Suarez, G. Aguilar, Y. Gutierrez, D. Ponce, P. Cubereo, A. Robaina, F. Carreras, J.L.
„Brain ischemia and hypometabism treated by ozone therapy“
Forsch Kompletmed 18: 283-287 (2011)
- Calderon, N. Kaufmann, T.
„Ozon-Unterdruckbegasung bei chronischen Ulzerationen“.
in „ Ozon-Handbuch. Grundlagen, Prävention, Therapie“ Viebahn-Hänsler, Knoch (Hrsg), ecomed, Landsberg 7. Erg. (2001).
- Calunga, J.L., Menendez, S., Barber, E., Merino, N. Cruz, E.
"Ozone Biological response in kidneys of rats submitted to warm ischemia"
Ozone:Science and Engineering, 25:233-240 (2003)
- Copello M., M. Eguia, F. Menedez, S. Menendez,
"Ozone therapy in patients with retinitis pigmentosa"
Ozone Sci Eng 25 (2003) 223-232



□

Copello Mirta, Silvia Menéndez and Frank Hernández
"Ozone therapy in Retinitis Pigmentosa patients
Clinical Evolution and oxidative stress behaviour in Retinitis Pigmentosa
patients treated with ozone therapy during 20 years"
Ozone Sci Eng 34, 475-483 (2012)

□

Cross, C., E., Reznick, A., Z., Packer, L., Davis, P., A., Suzuki, Y., J., Halliwell, B.1992, b
Oxidative damage to human plasma proteins by ozone. Free Rad. Res. Commun. 15, 347-352.

D

Díaz-Soto, María Teresa, Angela Fraga Pérez, Jaqueline Dranguet Vaillant, Mallok A,
Renate Viebahn-Haensler, Silvia Menéndez Cepero, Olga Sonia León Fernández
"Ozone therapy ameliorates nervous system disorders and plasmatic oxidative stress in patients during
Ethanol Withdrawal-A pilot study"
Ozone Sci Eng 34, 432-437 (2012)

□

Díaz-Soto, María Teresa, Angela Fraga Pérez, Jaqueline Dranguet Vaillant, Mallok A,
Renate Viebahn-Haensler, Silvia Menéndez Cepero, Olga Sonia León Fernández
"Ozone Oxidative Postconditioning protects against the injury associated to
Alcohol Withdrawal Syndrome in rats"
Ozone Sci Eng 34, 425-431 (2012)

□

Di Paolo, N., Bocci, V., Garosi, G., Borelli, E., Bravi, A., Bruci, A., Aldinucci, C., Capotondo, L.
"Extracorporeal blood oxygenation and ozonation (EBOO) in man. Preliminary report"
Int J Artif Organs, 23: 131-41 (2000)

□

Dorstewitz, H.
"Periphere und arterielle Durchblutungsstörungen"
in Beck, E.G., Viebahn-Hänsler, R. (Hrsg.)
Ozon-Handbuch, ecomed Landsberg (1995)

□

Dranguet Vaillant, J, Angela Fraga, Maria Teresa Diaz, A. Mallok, Renate Viebahn-Hänsler, Ziad Fahmy,
Ariana Barbera, Livan Delgado, Silvia Menendez, Olga Sonia Leon Fernandez
„Ozone oxidative postconditioning ameliorates joint damage and decreases pro-inflammatory cytokine levels
and oxidative stress in PG/PS-induced arthritis in rats“
Eur J Pharm 714, 318-324 (2013)

F

Fahmy, Z.
"Ozon-Sauerstoff-Therapie in der Rheumatologie"
In: Wasser Berlin - 5. Ozon-Weltkongreß
(1981) 148-159

□

Fathi , Ahmed M, Mohamed N. Mawsouf , and Renate Viebahn-Hänsler
„Ozone Therapy in Diabetic Foot and Chronic, Nonhealing Wounds“Ozone Sci Eng 34, 438-450 (2012)

□

Filippi, A.
"Lokalbehandlung von Ostitis circumscripta mit ozonisiertem Olivenöl".
Quintessenz 44 (1993), 1531-1537

□

Filippi, A.
„Ozone in oral surgery – current status and prospects“
Ozone Sci Eng 19, 387-393 (1997)



- Filippi, A.
„Der Einfluss von Ozon auf die epitheliale Wundheilung“
Dtsch Zahnärztl Z 56, 104-108 (2001)
- Filippi, A.
„Water disinfection of dental units using ozone – microbiological results after 11 years and technical problems“
Ozone Sci Eng 24, 479-484 (2002)
- Filippi, A.
„Bewährung der Wasserdesinfektion zahnärztlicher Behandlungseinheiten durch Ozon“
Dtsch Zahnärztl Z 50, 708 (1995)
- Filippi, A.
„Ozone is the most effective disinfectant for dental treatment units: results after 8 years of comparison“
Ozone Sci Eng 19, 527 (1997)
- Filippi, A.
“Ozone in the room air when using water ozonating equipment in the dental treatment area“
Ozone Sci Eng 20, 251 (1998)
- Filippi, A.
„Ozoniertes Wasser als Kühl- und Spülmedium bei Osteotomie“
Dtsch Zahnärztl Z 54, 619 (1999)

G

González, R, A Borrego, Z Zamorra, C Romay, F Hernández, S Menéndez, T Montero, E Rojas
“Reversion by ozone treatment of acute nephrotoxicity induced by cisplatin in rats”
Med Inflamm 13 (2004) 307-312

H

- Haddad, E.B. et al.
"Ozone Induction of Cytokine-Induced Neutrophil Chemottractant arid Nuclear Factor – kB in Rat Lungs.
Inhibition by Corticosteroids"
Fed. Env. Biochem. Soc. (FEBS) Leiters 379 (1996) 265-268
- Hagel, J.
"Behandlung therapieresistenter Crohnfisteln mit Hilfe lokaler Ozonbegasung"
Medica'88 Kongreßbericht, Ozon Nachrichten
"Ärztliche Gesellschaft für Ozon-Anwendung in Prävention und Therapie e.V.", 1988.
- Hernández, F, S Menéndez, R. Wong
Decrease of blood cholesterol and stimulation of antioxidative response in cardiopathy patients treated with
endovenous ozone therapy
Free Rad Biol Med 19 (1995) 115-119
- Hoffmann, A., Viebahn, R.
„The Influence of Ozone on 2,3 Diphosphoglycerate Synthesis in Red Blood Cell Concentrates“.
Proceedings of the 15th Ozone World Congress, Imperial College London 2001
- Hoffmann, A. Viebahn, R.
“Über den Einfluss von Ozon auf die 2,3 Diphosphoglycerat-Synthese in Erythrozyten-Konzentraten“
Viebahn-Hänsler, R. (Hrsg.) Ozon-Handbuch, ecomed Landsberg (2002)



□
Hoigné, J., Bader, H.
"Rate constants of reactions of ozone with organic and inorganic compounds in water
I/II. Watet Res. 17 (1983) 173-194

□
Huth, K. Jakob, F. Saugel, B. Cappello, C. Paschos, E. Hollweck, R.
Hickel, R. Brand, K
"Effect of ozone on oral cells compared with established antimicrobals"
Eur J Oral Sci 114: 435-440 (2006)

J

Jakl, J.
"Ozon in der Sportmedizin"
(1993) Wien (Forschungsberichte Washüttl/Jakl)

K

Knoch, H.G., Klug, W.
"Rektale Ozon-Sauerstoff-Anwendung in der Proktologie"
in Beck, E.G., Viebahn-Hänsler, R. (Hrsg.)
Ozon-Handbuch, ecomed Landsberg (1995)

□
Knoch, H.G., Roschke, W., Klug, W.
"Die Sauerstoff Ozontherapie in der Proktologie"
Aktuelle Koloproktologie Bd 4 (1987), 161-173.

□
Knoch, H.G., Klug, W.
"Langzeitergebnisse zur Ozonbehandlung der Proktitis"
Ozon Nachrichten 7 (1988/89), 70-82

□
Knoch, H.G., R. Viebahn-Hänsler, Z. Fahmy, „Guidelines“
,Ärztliche Gesellschaft für Ozonanwendung in Prävention und Therapie (2009)

L

Lehnert, T. Mundackatharappel, S. Schwarz, W. Bisdas, S. Wetter, A. Herzog, C. Balzer J.O.
Mack, M.G. Vogl, T. J.
„Nukleolyse beim Bandscheibenvorfall“
Der Radiologe 46 (2006) 513-519

□
Lell, B., Viebahn, R, Kreamsner, P. „The Activity of Ozone Against Plasmodium Falciparum“
Ozone: Sci Eng 23: 89-93 (2001)

□
Leon, O S, G Martinez, S Menendez, A M Comona, M. Merino, S. M. Al-DaLain
„Die Wirksamkeit der Ozontherapie bei Diabetes Typ II, tierexperimentell und in einer klinisch kontrollierten Studie mit 160 Patienten (The efficacy of ozone therapy in Type II diabetes: in animal experiments and in a clinical controlled study with 160 patients)“
in „Ozon-Handbuch. Grundlagen, Prävention, Therapie“
R. Viebahn-Hänsler, H.G. Knoch (Hrsg), ecomed-Verlag 2005

□
León Fernández, Olga Sonia, Renate Viebahn-Haensler, Gilberto López Cabreja, Irainis Serrano Espinosa, Yanet Hernández Matos, Liván Delgado Roche, Beatriz Tamargo Santos, Gabriel Takon Oru, Juan Carlos Polo Vega
„Medical ozone increases methotrexate clinical response and improves cellular redox balance in patients with rheumatoid arthritis „ European Journal of Pharmacology July 2016
<http://dx.doi.org/10.1016/j.ejphar.2016.07.031>



- Léon, O.S., Menendéz, S., Merino, N., Castillo, R., Sam, S., Pérez, L., Cruz, E., Bocci, V.
"Ozone Oxidative Preconditioning: a protection against Cellular Damage by Free Radicals"
Mediators of Inflammation 7: 289-294 (1998)
- Léon Fernandez, Olga S. Ajamijeh, H.H. Berlanga J. Menendez, S. Viebahn-Hänsler, R. Re, L. Carmona, A.M.
"Ozone oxidative preconditioning is mediated by A1 adenosine receptors in a rat model of liver
ischemia/reperfusion"
Transplant International 21 (2007) 39-48
- León Fernández, Olga S., M. Pantoja, M.T. Díaz Soto, J. Dranguet, M. García Insua, R. Viebahn-Hänsler, S.
Menéndez Cepero, J. L. Calunga Fernández "Ozone oxidative post-conditioning reduces oxidative protein
damage in Patients with Hernia Disc"
Neurological Research 34: 59-67 (2012)
- Lynch, E.
„Ozone in dentistry“ European Ozone Congress 2003, Proceedings
- Lerner, RA, A Eschenmoser Ozone in Biology PNA 100 (2003) 3013-3015

M

- Mallok, Akel, Jaqueline Dranguet, Maris Teresa Diaz Soto, Renate Viebahn-Hänsler, Maria de los Angeles Bequer Viat, Angela Praga Perez, Rubens Ivan, Donoso Cedeno, Olga Sonia Leon Fernandez**
„Ozone protective effects against PTZ induced generalized seizures are mediated by reestablishment of cellular redox balance and A1 Adenosine receptors“
Neurological Research 37, 204-2010 (2015)
- Martinez, G, Said Mohammed Al Dalain, Silvia Menendez, Attila Guiliani and Olga Sonia León
"Ozone Treatment Reduces Blood Oxidative Stress and Pancreas Damage in a Streptozotocin-Induced
Diabetes Model in Rats"
Acta Farm. Bonaerense 24 (2005) 491-7
 - Martinez-Sanchez, G, Said M Al Dalain, Silvia Menendez,
Lamberto R., Attila Guiliani Eduardo Candelario-Jalil,
Hector Alavarez, Jose Ignacio Fernandes-Montequin, Olga Sonia León
"Therapeutic Efficacy of Ozone in Patients with Diabetic Foot"
European Journal of Pharmacology 523 (2005) 151-161
 - Matsuno, H., Miura, T., Shinriki, N.
"The Effect of Ozone on Platelet Activation"
Proceedings P-11-9, 13th Ozone World Congress 1997, Kyoto.
 - Mattassi, R. et al.
"Ozontherapie bei Viruserkrankungen".
Proceedings der Ärztlichen Gesellschaft für Ozontherapie Baden-Baden 1981.
 - Mattassi, R., Franchina, A., d'Angelo, F.
"Ozontherapie als Adjuvans in der Gefäßpathologie"
In: Wasser Berlin - 5. Ozon-Weltkongress 1981, 141-147
 - Mawsouf, N. et al. "Hepatitis C-eine Pilotstudie" (2004)
in „Ozon-Handbuch. Grundlagen, Prävention, Therapie“ Viebahn-Hänsler,
Knoch (Hrsg), ecomed, Landsberg (1995-2006)



- Mawsouf M. N., T. T. Tanbouli , R. Viebahn-Haensler
„Ozone Therapy in Patients with viral hepatitis C – ten years experience“
Ozone Sci Eng 34, 425-431 (2012)
- Menendez, S. Cepero, J. Borrego, L.
“Ozone therapy in cancer treatment: state of the art”
Ozone Sc Eng 30 (2008) 398-404
- Muto, M. Andreula, C. Leopardi, M.
“Treatment of herniated lumbar disc by intradiscal and intraforaminal oxygen-ozone (O2-O3) injection”
J Neuroradiol 31 (2004) 183-189

P

- Paradiso, R. Alexandre, A.
“ the different outcomes of patients with disc herniation treated either by microdiscectomy,
or by intradiscal ozone injection”
Acta Neurochir 92 (2005) 139-142
- Payr, E.
"Über Ozonbehandlung in der Chirurgie"
Arch.f.Klin.Chirurgie 183, (1935) 1 - 291.
- Peralta, C., León, O.S., Xaus, C., Prats, N., Sala Planell, E., Puig-Parellada, P., Gelpí, E., Roselló-Catafau, J.
„ Protective Effect of Ozone Treatment on the Injury Associated with Hepatic Ischemia-Reperfusion:
Antioxidant-Prooxidant Balance“
Free Rad Res 31: 191-196 (1999)

R

- Re, Lamberto, Gregorio Martinez-Sanchez, Marica Bordicchia,
Giuseppe Malcangi, Antonella Pocognoli, Miguel A Morales-Segura,
John A Rothchild, Armando Rojas,
„Is ozone pre-conditioning effect linked to Nrf2/EpRE activation pathway in vivo? A preliminary result“ EJP 742
(2014) 158-162
- Riva Sanseverino, E, RA MEDURI, A Pizzino, M FRANTERA, E MARTINI
Effects of oxygen-ozne therapy on age-related degenerative retinal macuopathy
Panminerva Medica 32 (1990) 77-84
- Riva Sanseverino, E., Castellacci, P. "Kniegelenkerkrankungen"
in Beck, E.G., Viebahn-Hänsler, R. (Hrsg.)
Ozon-Handbuch, ecomed Landsberg, 1. Erg. (1996)
- Rokitansky, O.
"Klinik und Biochemie der Ozontherapie"
Hospitalis 52 (1982) 643-646 und 71 1-713
- Rokitansky, O., Rokitansky, A., Trubel, W., Viebahn, R., Washüttl, J.:
Wasser Berlin '81 (Proceedings 1981)



S

Sader, R., Zeithafer, H.-F., Deppe, H.

"Ozontherapie chronischer Wundheilungsstörungen im bestrahlten Kiefer"
Dtsch.Z.Mund Kiefer Gesichts Chir. 20 (1996), 60-64

□

Sagai, Masaru, Bocci, V.

„Mechanisms of action involved in ozone therapy: is healing induced via a mild oxidative stress?“
Medical Gas Research 1 (2011) 29

□

Schönbein, C.F.

"Beobachtungen über den bei der Elektrolyse des Wassers und dem Ausströmen der gewöhnlichen Elektrizität aus Spitzen sich entwickelnden Geruch"

Basel 1840 und "Über verschiedene Zustände des Sauerstoffs"
Annalen der Chemie und Pharmazie, Heidelberg (1854)

□

Schulz, S., Rodriguez, Z., Mutters, R., Bette, M., Menéndez, S., Carbajal, C., Hoffman, S. „Significant Increase on Survival in Lethal Peritonitis with Ozone and Antibiotics in Rats“ in Proceedings Intern Ozone Symposium Basel (1999)

□

Schulz, S., Rodriguez, Z., Mutters, R., Menéndez, S., Bette, M.

„Repetitive Pneumoperitoneum with ozonized oxygen as a preventive in lethal polymicrobial sepsis in rats“
EUR SURG RES 35 (2003) 26-34

□

Schulz, S. Häussler, U. Mandic, R. Heverhagen, Neubauer, A. Dünne, A. Werner J. Weihe, E. Bette, M.

„Treatment with ozone/oxygen-pneumoperitoneum results in complete remission of rabbit squamous cell carcinomas“

Int J cancer 122 (2008) 2360-2367

□

Shinriki, N. et al. "Mechanism of Inactivation of Tobacco Mosaic Virus with Ozone"

Wat.Res. 22 (1988) pp. 933-938

□

Shinriki, N., Sisuki, N., Takama, K., Fukunaga, K., Ohgiya, S., Kubota, K., Miura, T.

“Susceptibilities of plasma antioxidants and erythrocyte constituents to low levels of ozone“
Haematologia 29: no 3 (1998)

□

Shinriki, N., Miura, T. „Spezifische Reaktionen des Ozons im Vollblut-Ozonzerhung“
in „Ozon-Handbuch. Grundlagen Prävention Therapie“ E.G.Beck, R.Viebahn-Hänsler (Hrg),
comed 3. Erg. (1998)

□

Siemsen, C.-H.

"Ozonanwendung bei akuten und chronischen Gelenkerkrankungen"

in Beck, E.G., Viebahn-Hänsler, R. (Hrsg.)

Ozon-Handbuch, comed Landsberg (1995)

□

Smettan, R. Influence on visual acuity in patients with age related maculardegeneration
Proceedings (2005)

World Congress of the International Ozone Association IOA Strassbourg

□

Steppan, J. Meaders, Th. Muto, M. Murphy, K.

“A metaanalysis of the effectiveness and safety of ozone treatments for herniated lumbar discs“

J Vasc Interv Radiol 21 (2010) 534-548



T

Travagli, V. Zanardi, I. Bocci, V.

"A realistic evaluation of the action of ozone on whole human blood"

Int J Macromol 39 (2006) 317-320

□

Türk, R, "Ozon in der Zahnheilkunde" in Beck, E.G., Viebahn-Hänsler, R. (Hrsg.)

Ozon-Handbuch, ecomed Landsberg (1995)

V

[Viebahn-Hänsler](#), R. [Olga Sonia León Fernández](#) & [Ziad Fahmy](#)

„Ozone in Medicine: Clinical Evaluation and Evidence Classification of the Systemic Ozone Applications, Major Autohemotherapy and Rectal Insufflation, According to the Requirements for Evidence-Based Medicine“

<http://www.tandfonline.com/doi/abs/10.1080/01919512.2016.1191992>

□

Viebahn-Hänsler, Renate Olga Sonia León Fernández, Ziad Fahmy

„Ozone in medicine: The low-dose ozone concept.

Guidelines and treatment strategies“

Ozone Sci Eng 34, 408-424 (2012)

<http://www.tandfonline.com/doi/full/10.1080/01919512.2012.717847#.U90hPFbB4v4>

□

Viebahn-Hänsler, R. Knoch, H.G. (Hrg.)

„Ozon-Handbuch, Grundlagen-Prävention-Therapie“

ecomed, Landsberg (1995-2006)

□

Viebahn, R., (2002-2007) The use of ozone in medicine, ODREI

Publishers, Iffezheim, Germany, pp: 160.

□

Viebahn-Hänsler, R. Ozon-Sauerstoff-Therapie. Ein praktisches Handbuch. Haug/Thieme Stuttgart 2009, 106 pp

Viebahn-Hänsler, Renate, Olga Sonia León Fernández, Ziad Fahmy

„Ozone in medicine: The low-dose ozone concept.

Guidelines and treatment strategies“ Ozone Sci Eng 34, 408-424 (2012)

W

Washüttl, J., Viehahn, R.

"Ozonisiertes Olivenöl - Zusammensetzung und desinfizierende Wirksamkeit"

Ozon Nachrichten 1 (1982), 25-28

□

Wentworth , P. JE McDunn, AD Wentworth, C Takeuchi, J. Nieva, T Jones, C Bautista, JM Ruedi, A Gutierrez, KD

Janda, BM Babior, A Eschenmoser, RA Lerner

Evidence for antibody-catalyzed ozone formation in bacterial killing and inflammation

Science, 298 (2002) 2195-2199.

□

Werkmeister, H.

"Dekubitalgeschwüre und die Behandlung mit der Ozon-Unterdruckbegasung

in Beck, E.G., Viebahn-Hänsler, R. (Hrsg.)

Ozon-Handbuch, ecomed Landsberg (1995)

□

Werkmeister, H.

"Dekubitalgeschwüre und die Behandlung mit der Ozon-Unterdruckbegasung

in Beck, E.G., Viebahn-Hänsler, R. (Hrsg.)

Ozon-Handbuch, ecomed Landsberg (1995)



- Washüttl, J.: Forschungsberichte "Ozonosan" 1980-1987.
- Waßer, G.H. "Zerebrale Durchblutungsstörungen" in Beck, E.G., Viebahn-Hänsler, R. (Hrsg.) Ozon-Handbuch, ecomed Landsberg (1995)
- Wolff, H. "Das Medizinische Ozon" Verlag für Medizin vfm Heidelberg 1979

Z

Zimmermann D, Waltimo T, Filippi A
„Ozonized water in dental traumatology –
A preliminary study on the treatment of avulsed teeth, in vitro“
Ozone Sci Eng 34, 484-488 (2012)

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