

Intravenous Nutrient Therapy in Oncology – Selected Interventions

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Complete References



1. Klenner F. Virus Pneumonia and its Treatment with Vitamin C. *Southern Med Surg.* Feb. 1948
2. Klenner F. Encephalitis as a Sequela of the Pneumonias. *Tri-State Med J.* Feb. 1960.
3. Klenner F. An Insidious Virus. *Tri-State Med J.* June 1957.
4. Pauling L. *Vitamin C and the Common Cold.* W. F. Freeman & Co. San Francisco, 1970.
5. Chen Q, et al. Ascorbate in pharmacologic concentrations selectively generates ascorbate radical and hydrogen peroxide in extracellular fluid in vivo. *Proc Natl Acad Sci U S A.* 2007; 104(21):8749-54.
6. Padayatty SJ, et al. Vitamin C: Intravenous Use by Complementary and Alternative Medicine Practitioners and Adverse Effects. *PLoS ONE.* 5(7): (2010) e11414:1-8. PMID: 20628650.
7. Verrax J, Calderon PB. The controversial place of vitamin C in cancer treatment. *Biochemical Pharmacology.* 76 (2008) 1644 – 1652. PMID: 18938145.
8. Chen Q, et al. Ascorbate in pharmacologic concentrations selectively generates ascorbate radical and hydrogen peroxide in extracellular fluid in vivo. *PNAS USA.* May 2007;104(21):8749-54.
9. Verrax J. The controversial place of vitamin C in cancer treatment biochemical pharmacology. *Biochem Pharmacol.* December 2008;76(12): 1644-52.
10. Hunninghake R. Adjunctive IVC Therapy Help Cancer Patients Update. 3rd Annual Conference and Expo IV Therapies 2014 Integrative Oncology. January 25, 2014.
11. Ibid
12. Mikirova NA, et al. Intravenous ascorbic acid protocol for cancer patients: scientific rationale, pharmacology, and clinical experience. *Functional Foods in Health and Disease.* 2013;2(8):344-366.
13. Padayatty SJ, et al. Vitamin C: Intravenous Use by Complementary and Alternative Medicine Practitioners and Adverse Effects. *PLoS ONE.* 2010;5(7): e11414:1-8.
14. Anderson PS. Ascorbate and Oncologic Therapies, a Review. 2013 [https://www.academia.edu/10024397/Ascorbate and Oncologic Therapies - Research Review](https://www.academia.edu/10024397/Ascorbate_and_Oncologic_Therapies_-_Research_Review)
15. Levine M, et.al. Vitamin C: A Concentration-Function Approach Yields Pharmacology and Therapeutic Discoveries. *Advanced Nutrition.* 2011;2: 78–88.
16. Verrax J, Calderon PB. The controversial place of vitamin C in cancer treatment biochemical pharmacology. 2008; 76: 1644 – 1652.

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17. Berenson JR, et al. Bortezomib, ascorbic acid and melphalan (BAM) therapy for patients with newly diagnosed multiple myeloma: an effective and well-tolerated frontline regimen. *Eur J Haematol*. 2009;82:433–9.
18. Takahashi H, Mizuno H, Yanagisawa A. A High-dose intravenous vitamin C improves quality of life in cancer patients. *Personalized Medicine Universe*. March 2012; 49-53.
19. Yeom CH, Jung GC, Song JK. Changes of terminal cancer patient's health related quality of life after high dose vitamin C administration. *Korean Medical Science*. Feb 2007;22: 7-11.
20. Nelson R. Can Integrative Oncology Extend Life in Advanced Disease? October 25, 2013. Accessed September 17, 2017, <http://www.medscape.com/viewarticle/813217>
21. Anderson PS. Updated Data Review and Policies for concurrent use at Anderson Medical Specialty Associates, Southwest College of Naturopathic Medicine Research Institute and Medical Center and Bastyr University Clinical Research Center. 3rd Annual Conference and Expo IV Therapies 2014 Integrative Oncology. January 25, 2014.
22. Anderson P. "Intravenous Vitamin C in Naturopathic Oncology. Scientific Presentation. Oncology Association of Naturopathic Physicians. Scottsdale, Arizona. 2012.
23. Carr AC, Vissers MCM, Cook JS. The Effect of Intravenous Vitamin C on Cancer- and Chemotherapy-Related Fatigue and Quality of Life. *Frontiers in Oncology*. 2014; 4: 283,
24. Hininger I, et al. Prooxidant effects of vitamin C in EDTA chelation therapy and long-term antioxidant benefits of therapy. *Free Radic Biol Med*. 2005;38:1565-1570.
25. Roussel AM, et al. EDTA Chelation Therapy, without Added Vitamin C, Decreases Oxidative DNA Damage and Lipid Peroxidation. *Altern Med Rev*. 2009;14(1):56-61
26. Mühlhöfer A, et al., High-dose intravenous vitamin C is not associated with an increase of pro-oxidative biomarkers. *Eur J Clin Nutr*. 2004 Aug;58(8):1151-8.
27. Vollbracht C, et al. Intravenous vitamin C administration improves quality of life in breast cancer patients during chemo-/radiotherapy and aftercare: results of a retrospective, multicentre, epidemiological cohort study in Germany. *In Vivo*. 2011 Nov-Dec;25(6):983-90.
28. Yeom CH, Jung GC, Song KJ. Changes of terminal cancer patients' health-related quality of life after high dose vitamin C administration. *J Korean Med Sci*. 2007 Feb;22(1):7-11.
29. Klimant E, Wright H, Hilewitz H, Guidelines for the Utilization of IV Vitamin C in the Supportive Care of Patients with Advanced Malignancies. SIO Poster Presentation, 2012
30. Lutsenko EA, et al. Vitamin C Prevents Gene Mutation Induced by Oxidative Stress. *Journal of Biological Chemistry*. 277(19), May 10, 2002.
31. Vojdani A, Namatella G. Enhancement of Human Natural Killer Cytotoxic Activity by Vitamin C in Pure and Augmented Formulations. *Journal of Nutritional and Environmental Medicine*. 1997; 7(3): 187-196.
32. Tilton J. Benefits and risks of parenteral nutrition in patients with cancer. *Oncology Nurse Advisor*. July/August 2011; 22-34.
33. Kern KA, Norton JA. Cancer cachexia. *J Parenter Enteral Nutr*. 1988;12(3):286-298.
34. Bozzetti F, Mariani L. Defining and classifying cancer cachexia: a proposal by the SCRINIO Working Group. *J Parenter Enteral Nutr*. 2009;33(4):361-367.
35. Mirhosseini M, Faisinger R. Fast facts and concepts #190 Parenteral nutrition in advanced cancers patients. End of Life/Palliative Education Resource Center.

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<http://www.eperc.mcw.edu/FileLibrary/User/jrehm /fastfactpdfs/Concept190.pdf>. Accessed July 18, 2011.

36. Rabinovitch R, et.al. Impact of nutrition support on treatment outcome in patients with locally advanced head and neck squamous cell cancer treated with definitive radiotherapy: a secondary analysis of RTOG trial," 90-03. *Head Neck*. 2006;28(4):287-296.
37. August DA, Huhmann MB. A.S.P.E.N. clinical guidelines: nutrition support therapy during adult anticancer treatment and in hematopoietic cell transplantation. *J Parenter Enteral Nutr*. 2009;33(5):472-500.
38. Bozzetti F. Total parenteral nutrition in cancer patients. *Curr Opin Support Palliat Care*. 2007;1(4):281-286.
39. Fan BG. Parenteral nutrition prolongs the survival of patients associated with malignant gastrointestinal obstruction. *J Parenter Enteral Nutr*. 2007;31(6):508-510.
40. De Mattia G, et.al. Influence of reduced glutathione infusion on glucose metabolism in patients with non-insulin-dependent diabetes mellitus. *Metabolism*. 1998 Aug;47(8):993-7. PMID: 9711998
41. Jonas CR, et al. Plasma antioxidant status after high-dose chemotherapy: a randomized trial of parenteral nutrition in bone marrow transplantation patients. *Am J Clin Nutr*. 2000;72:181–9.
42. Midander J, et al. Reduced repair of potentially lethal radiation damage in glutathione synthetase-deficient human fibroblasts after X-irradiation. *Int J Radiat Biol Relat Stud Phys Chem Med*. 1986 Mar;49(3):403-13.
43. Pujari G, et al. Influence of glutathione levels on radiation-induced chromosomal DNA damage and repair in human peripheral lymphocytes. *Mutat Res*. 2009 Jun-Jul;677(1-2):109-10.
44. Cascinu S, et al. Neuroprotective Effect of Reduced Glutathione on Oxaliplatin-Based Chemotherapy in Advanced Colorectal Cancer: A Randomized, Double-Blind, Placebo-Controlled Trial. *J Clin Oncol*. 20:3478-3483.
45. Milla P, et al. Administration of reduced glutathione in FOLFOX4 adjuvant treatment for colorectal cancer: effect on oxaliplatin pharmacokinetics, Pt-DNA adduct formation, and neurotoxicity. *Anticancer Drugs*. 2009 Jun;20(5):396-402.



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