

9. REFERENCES

- ACGIH. 2013. Threshold limit values for chemical substances and physical agents and biological exposure indices. Cincinnati, OH: American Conference of Governmental Industrial Hygienists. <http://www.acgih.org/home.htm>. January 08, 2014.
- Adlercreutz H. 1995. Phytoestrogens: Epidemiology and a possible role in cancer protection. *Environmental Health Perspectives Supplement* 103(7):103-112.
- AIHA. 2013. Emergency response planning guidelines (ERPG). Fairfax, VA: American Industrial Hygiene Association. <https://www.aiha.org/get-involved/AIHAGuidelineFoundation/EmergencyResponsePlanningGuidelines/Pages/default.aspx>. January 08, 2014.
- Alavantic D, Sunjevaric I, Cerovic G, et al. 1988a. In-vivo genotoxicity of nitrates and nitrites in germ cells of male mice. 2. Unscheduled DNA synthesis and sperm abnormality after treatment of spermatids. *Mutat Res* 204(4):697-702.
- Alavantic D, Sunjevaric I, Pecevski J, et al. 1988b. In vivo genotoxicity of nitrates and nitrites in germ cells of male mice. 1. Evidence for gonadal exposure and lack of heritable effects. *Mutat Res* 204(4):689-695.
- Al-Dabbagh S, Forman D, Bryson D, et al. 1986. Mortality of nitrate fertilizer workers. *Br J Ind Med* 43(8):507-515.
- Al-Gayyar MM, Alyoussef A, Hamdan AM, et al. 2015. Cod liver oil ameliorates sodium nitrite-induced insulin resistance and degradation of rat hepatic glycogen through inhibition of cAMP/PKA pathway. *Life Sci* 120:13-21. 10.1016/j.lfs.2014.11.002.
- Altman PL, Dittmer DS. 1974. Biological handbooks: Biology data book. Vol. III. 2nd ed. Bethesda, MD: Federation of American Societies of Experimental Biology, 1987-2008, 2041.
- Alyoussef A, Al-Gayyar MM. 2016a. Thymoquinone ameliorated elevated inflammatory cytokines in testicular tissue and sex hormones imbalance induced by oral chronic toxicity with sodium nitrite. *Cytokine* 83:64-74. 10.1016/j.cyto.2016.03.018.
- Alyoussef A, Al-Gayyar MM. 2016b. Thymoquinone ameliorates testicular tissue inflammation induced by chronic administration of oral sodium nitrite. *Andrologia* 48(5):501-508. 10.1111/and.12469.
- Andersen ME, Krishnan K. 1994. Relating *in vitro* to *in vivo* exposures with physiologically based tissue dosimetry and tissue response models. In: Salem H, ed. *Animal test alternatives: Refinement, reduction, and replacement*. New York, NY: Marcel Dekker, Inc., 9-25.
- Andersen ME, Clewell HJ, Gargas ML, et al. 1987. Physiologically based pharmacokinetics and the risk assessment process for methylene chloride. *Toxicol Appl Pharmacol* 87(2):185-205.

* Not cited in text

9. REFERENCES

- Anderson LM, Giner-Sorolla A, Haller IM, et al. 1985. Effects of cimetidine, nitrite, cimetidine plus nitrite, and nitrosocimetidine on tumors in mice following transplacental plus chronic lifetime exposure. *Cancer Res* 45(8):3561-3566.
- Andrews AW, Fornwald JA, Lijinsky W. 1980. Nitrosation and mutagenicity of some amine drugs. *Toxicol Appl Pharmacol* 52:237-244.
- Andrews AW, Lijinsky W, Snyder SW. 1984. Mutagenicity of amine drugs and their products of nitrosation. *Mutat Res* 135:105-108.
- Aoyagi M, Matsukura N, Uchida E, et al. 1980. Induction of liver tumors in Wistar rats by sodium nitrite given in pellet diet. *J Natl Cancer Inst* 65(2):411-414.
- Aquanno JJ, Chan KM, Dietzler DN. 1981. Accidental poisoning of two laboratory technologists with sodium nitrite. *Clin Chem* 27(6):1145-1146.
- Arbuckle TE, Sherman GJ, Corey PN, et al. 1988. Water nitrates and CNS birth defects: A population-based case-control study. *Arch Environ Health* 43(2):162-167.
- Armijo R, Gonzalez A, Orellana M, et al. 1981. Epidemiology of gastric cancer in Chile: 2. Nitrate exposures and stomach cancer frequency. *Int J Epidemiol* 10(1):57-62.
- Asahina S, Friedman MA, Arnold E, et al. 1971. Acute synergistic toxicity and hepatic necrosis following oral administration of sodium nitrite and secondary amines to mice. *Cancer Res* 31(9):1201-1205.
- Aschebrook-Kilfoy B, Cross AJ, Stolzenberg-Solomon RZ, et al. 2011. Pancreatic cancer and exposure to dietary nitrate and nitrite in the NIH-AARP Diet and Health Study. *Am J Epidemiol* 174(3):305-315.
- Aschebrook-Kilfoy B, Heltshe SL, Nuckols JR, et al. 2012. Modeled nitrate levels in well water supplies and prevalence of abnormal thyroid conditions among the Old Order Amish in Pennsylvania. *Environ Health (Lond)* 11:6-16.
- Aschebrook-Kilfoy B, Shu X, Gao Y, et al. 2013a. Thyroid cancer risk and dietary nitrate and nitrite intake in the Shanghai Women's Health Study. *Int J Cancer* 132:897-904.
- Aschebrook-Kilfoy B, Ward MH, Dave BJ, et al. 2013b. Dietary nitrate and nitrite intake and risk of non-Hodgkin lymphoma. *Leuk Lymphoma* 54(5):945-950. 10.3109/10428194.2012.734613.
- Aschengrau A, Zierler S, Cohen A. 1989. Quality of community drinking water and the occurrence of spontaneous abortion. *Arch Environ Health* 44(5):283-290.
- Aschengrau A, Zierler S, Cohen A. 1993. Quality of community drinking water and the occurrence of late adverse pregnancy outcomes. *Arch Environ Health* 48(2):105-113.
- ATSDR. 1989. Decision guide for identifying substance-specific data needs related to toxicological profiles; Notice. Agency for Toxic Substances and Disease Registry. *Fed Regist* 54(174):37618-37634.
- ATSDR. 2013a. ATSDR case studies in environmental medicine. Nitrate/nitrite toxicity. Atlanta, GA: Agency for Toxic Substances and Disease Registry. U.S. Department of Health and Human Services. http://www.atsdr.cdc.gov/cssem/nitrate_2013/docs/nitrite.pdf. May 20, 2014.

9. REFERENCES

- ATSDR. 2013b. Nitrate/nitrite toxicity. Clinical assessment-laboratory tests [CE original date: December 5, 2013, CE renewal date: December 5, 2015, CE expiration date: December 5, 2017. http://www.atsdr.cdc.gov/csem/nitrate_2013/docs/nitrite.pdf. September 15, 2016.
- ATSDR. 2015. Ammonium nitrate, sodium nitrate, and sodium nitrite . Full SPL data. Substance priority list (SPL) resource page. Agency for Toxic Substances and Disease Registry, Centers for Disease Control and Prevention. <http://www.atsdr.cdc.gov/SPL/resources>. August 3, 2016.
- Avery AA. 1999. Infantile methemoglobinemia: Reexamining the role of drinking water nitrates. *Environ Health Perspect* 107(7):583-586.
- Bahadoran Z, Mirmiran P, Ghasemi A, et al. 2015. Is dietary nitrate/nitrite exposure a risk factor for development of thyroid abnormality? A systematic review and meta-analysis. *Nitric Oxide* 47:65-76. 10.1016/j.niox.2015.04.002.
- Bailey SJ, Vanhatalo A, Winyard PG, et al. 2012. The nitrate-nitrite-nitric oxide pathway: Its role in human exercise physiology. *Eur J Sport Sci* 12(4):309-320. <http://dx.doi.org/10.1080/17461391.2011.635705>. January 1, 2013.
- Bailey WP. 1966. Methemoglobinemia--acute nitrate poisoning in infants: Second report. *J Am Osteopath Assoc* 66(4):431-434.
- Balimandawa M, de Meester C, Leonard A. 1994. The mutagenicity of nitrite in the Salmonella/microsome test system. *Mutat Res* 321(1-2):7-11.
- Barbone F, Austin H, Partridge EE. 1993. Diet and endometrial cancer: A case-control study. *Am J Epidemiol* 137(4):393-403.
- Barclay PJ. 1998. Nitrates and nitrites. In: Viccellio P, ed. *Emergency toxicology*. 2nd ed. Philadelphia, PA: Lippincott-Raven Publishers, 315-323.
- Barnes DG, Dourson M. 1988. Reference dose (RfD): Description and use in health risk assessments. *Regul Toxicol Pharmacol* 8(4):471-486.
- Bauer SE, Koch D, Unger N, et al. 2007. Nitrate aerosols today and in 2030: A global simulation including aerosols and tropospheric ozone. *Atmos Chem Phys* 7(19):5043-5059.
- Behroozi K, Robinson S, Gruener N, et al. 1972. The effect of chronic exposure to sodium nitrite on the electroencephalogram of rats. *Environ Res* 5(4):409-417.
- Berger GS, ed. 1994. Epidemiology of endometriosis. In: *Endometriosis: Modern surgical management of endometriosis*. New York, NY: Springer-Verlag, 3-7.
- Blood AB, Power GG. 2015. Nitrite: On the journey from toxin to therapy. *Clin Pharmacokinet* 54(3):221-223. 10.1007/s40262-014-0231-5.
- Bloom JC, Schade AE, Brandt JT. 2013. Toxic responses of the blood. In: Klaassen CD, ed. *Casarett and Doull's toxicology: The basic science of poisons*. 8th ed. New York: McGraw Hill Education, 532-533.

9. REFERENCES

- Bloomfield RA, Welsch CW, Garner GB, et al. 1961. Effect of dietary nitrate on thyroid function. *Science* 134(3491):1690.
- Blowers L, Preston-Martin S, Mack WJ. 1997. Dietary and other lifestyle factors of women with brain gliomas in Los Angeles County (California, USA). *Cancer Causes Control* 8(1):5-12.
- Bondonno CP, Croft KD, Puddey IB, et al. 2012. Nitrate causes a dose-dependent augmentation of nitric oxide status in healthy women. *Food Funct* 3(5):522-527.
- Börzsönyi M, Pintér A, Surján A, et al. 1976. Transplacental induction of lymphomas in Swiss mice by carbendazim and sodium nitrite. *Int J Cancer* 17:742-747.
- Börzsönyi M, Pintér A. 1977. The carcinogenicity of N-nitroso compounds formed endogenously in mice from benzimidazole carbamate pesticides. *Neoplasma* 21(1):119-122.
- Börzsönyi M, Pintér A, Surján A, et al. 1978. Carcinogenic effect of a guanidine pesticide administered with sodium nitrite on adult mice and on the offspring after prenatal exposure. *Cancer Lett* 5(2):107-113.
- Bosch HM, Rosenfield AB, Huston R, et al. 1950. Methemoglobinemia and Minnesota well supplies. *J Am Water Works Assoc* 42(2):161-170.
- Brambilla G, Martelli A. 2007. Genotoxic and carcinogenic risk to humans of drug-nitrite interaction products. *Mutat Res* 635(1):17-52.
- Brambilla G, Cavanna M, Faggin P, et al. 1983. Genotoxic effects in rodents given high oral doses of ranitidine and sodium nitrite. *Carcinogenesis* 4(10):1281-1285.
- Brams A, Buchet JP, Crutzen-Fayt MC, et al. 1987. A comparative study, with 40 chemicals, of the efficiency of the Salmonella assay and the SOS chromotest (kit procedure). *Toxicol Lett* 38:1-2.
- Brender JD, Olive JM, Felkner M, et al. 2004. Dietary nitrites and nitrates, nitrosatable drugs, and neural tube defects. *Epidemiology* 15(3):330-336.
- Brender JD, Weyer PJ, Romitti PA, et al. 2013. Prenatal nitrate intake from drinking water and selected birth defects in offspring of participants in the National Birth Defects Prevention Study. *Environ Health Perspect.* 121(9):1083-1089.
- Bronson KF. 2008. Forms of inorganic nitrogen in soil. In: Schepers JS, Raun WR, eds. *Nitrogen in agricultural systems*. Madison, WI: American Society of Agronomy, Inc., Crop Science Society of America, Inc., Soil Science Society of America, Inc., 31-55.
- Bruning-Fann CS, Kaneene JB. 1993. The effects of nitrate nitrite and n-nitroso compounds on human health: A review. *Vet Hum Toxicol* 35(6):521-538.
- Bruning-Fann C, Kaneene JB, Miller RA, et al. 1994. The use of epidemiological concepts and techniques to discern factors associated with the nitrate concentration of well water on swine farms in the USA. *Sci Total Environ* 153(1-2):85-96.
- Bryan NS, van Grinsven H. 2013. The role of nitrate in human health. In: Sparks D, ed. *Advances in agronomy*. Vol. 119. Delaware: Elsevier, Inc., 153-181.

9. REFERENCES

- Bucklin R, Myint MK. 1960. Fatal methemoglobinemia due to well water nitrates. *Ann Intern Med* 52:703-705.
- Buiatti E, Palli D, Decarli A, et al. 1990. A case-control study of gastric cancer and diet in Italy: II. Association with nutrients. *Int J Cancer* 45(5):896-901.
- Bukowski J, Somers G, Bryanton J. 2001. Agricultural contamination of groundwater as a possible risk factor for growth restriction or prematurity. *J Occup Environ Med* 43(4):377-383.
- Burow KR, Nolan BT, Rupert MG, et al. 2010. Nitrate in groundwater of the United States, 1991–2003. *Environ Sci Technol* 44(13):4988-4997.
- Casu A, Carlini M, Contu A, et al. 2000. Type 1 diabetes in Sardinia is not linked to nitrate levels in drinking water. *Diabetes Care* 23(7):1043-1044.
- CDC. 1996. Spontaneous abortions possibly related to ingestion of nitrate-contaminated well water-LaGrange County, Indiana, 1991-1994. *MMWR Morb Mortal Wkly Rep* 45(26):569-572.
- CDC. 1997. Methemoglobinemia attributable to nitrite contamination of potable water through boiler fluid additives-New Jersey, 1992 and 1996. *MMWR Morb Mortal Wkly Rep* 46(9):202-204.
- CDC. 1998. A survey of the quality of water drawn from domestic wells in nine midwest states. Centers for Disease Control and Prevention, National Center for Environmental Health. <http://www.cdc.gov/nceh/hsb/disaster/pdfs/A%20Survey%20of%20the%20Quality%20of%20Water%20Drawn%20from%20Domestic%20Wells%20in%20Nine%20Midwest%20States.pdf>. May 21, 2014.
- CDC. 2002. Methemoglobinemia following unintentional ingestion of sodium nitrite - New York, 2002. Centers for Disease Control and Prevention, U.S. Department of Health and Human Services. *Morbidity and Mortality Weekly Report* 51(29):639-642.
- CDC. 2013. Fourth national report on human exposure to environmental chemicals, updated tables, September 2013. Atlanta, GA: Centers for Disease Control and Prevention, Department of Health and Human Services. http://www.cdc.gov/exposurereport/pdf/FourthReport_UpdatedTables_Sep2013.pdf. May 20, 2014.
- Cedergren MI, Selbing AJ, Lofman O, et al. 2002. Chlorination byproducts and nitrate in drinking water and risk for congenital cardiac defects. *Environ Res* 89(2):124-130.
- Chan WC, Fong YY. 1977. Ascorbic acid prevents liver tumour production by aminopyrine and nitrite in the rat. *Int J Cancer* 20(2):268-270.
- Chapin FJ. 1947. Methemoglobinemia from nitrates in well water. *J Mich State Med Soc* 46(8):938.
- ChemID Plus. 2014. Nitrate ion and nitrite ion. ChemIDplus: A Toxnet database. Bethesda, MD: U.S. National Library of Medicine. <http://chem.sis.nlm.nih.gov/chemidplus/>. May 22, 2014.
- Chiu BC, Dave BJ, Ward MH, et al. 2008. Dietary factors and risk of t(14;18)-defined subgroups of non-Hodgkin lymphoma. *Cancer Causes Control* 19(8):859-867. 10.1007/s10552-008-9148-3.
- Chiu HF, Tsai SS, Chen PS, et al. 2011. Does calcium in drinking water modify the association between nitrate in drinking water and risk of death from colon cancer? *J Water Health* 9(3):498-506.

9. REFERENCES

- Chiu HF, Tsai SS, Yang CY. 2007. Nitrate in drinking water and risk of death from bladder cancer: An ecological case-control study in Taiwan. *J Toxicol Environ Health A* 70(12):1000-1004. 10.1080/15287390601171801.
- Chow CK, Chen CJ, Gairola C. 1980. Effect of nitrate and nitrite in drinking water on rats. *Toxicol Lett* 6(3):199-206.
- Clewell HJ, Andersen ME. 1985. Risk assessment extrapolations and physiological modeling. *Toxicol Ind Health* 1(4):111-131.
- Cohen B, Myant NB. 1959. Concentration of salivary iodide: A comparative study. *J Physiol* 145(3):595-610.
- Comly HH. 1987. Landmark article Sept 8, 1945: Cyanosis in infants caused by nitrates in well water. *JAMA* 257(20):2788-2792.
- Commoner B, Woolum JC, Senturia BH, et al. 1970. The effects of 2-acetylaminofluorene and nitrite on free radicals and carcinogenesis in rat liver. *Cancer Res* 30(8):2091-2097.
- Cornblath M, Hartmann AF. 1948. Methemoglobinemia in young infants. *J Pediatr* 33:421-425.
- Cornell University. 2009. Nitrogen: All forms are not equal. Cornell University, Cooperative Extension. www.greenhouse.cornell.edu/crops/factsheets/nitrogen_form.pdf. November 17, 2014.
- Cortas NK, Wakid NW. 1991. Pharmacokinetic aspects of inorganic nitrate ingestion in man. *Pharmacol Toxicol* 68(3):192-195.
- Cortesi ML, Vollano L, Francesca M, et al. 2015. Determination of nitrate and nitrite levels in infant foods marketed in Southern Italy. *CyTA - Journal of Food* 13(4):629-634. 10.1080/19476337.2015.1035337.
- Costa LG, Aschner M, Vitalone A, et al. 2004. Developmental neuropathology of environmental agents. *Annu Rev Pharmacol Toxicol* 44:87-110.
- Couch DB, Friedman MA. 1975. Interactive mutagenicity of sodium nitrite, dimethylamine, methylurea, and ethylurea. *Mutat Res* 31:109-114.
- Craun GF, Greathouse DG, Gunderson DH. 1981. Methemoglobin levels in young children consuming high nitrate well water in the USA. *Int J Epidemiol* 10(4):309-317.
- Croen LA, Todoroff K, Shaw GM. 2001. Maternal exposure to nitrate from drinking water and diet and risk for neural tube defects. *Am J Epidemiol* 153(4):325-331.
- Cuello C, Correa P, Haenszel W, et al. 1976. Gastric cancer in Colombia: I. Cancer risk and suspect environmental agents. *J Natl Cancer Inst* 57(5):1015-1020.
- Dahlquist GG, Blom LG, Persson LA, et al. 1990. Dietary factors and the risk of developing insulin dependent diabetes in childhood. *Br Med J* 300(6735):1302-1306.

9. REFERENCES

- Dean JA. 1985. Table 5-7. Proton-transfer reactions of inorganic materials in water at 25 °C. In: Lange's handbook of chemistry. Thirteenth ed. New York, NY: McGraw Hill Book Company, 5-16.
- De Flora S. 1981. Study of 106 organic and inorganic compounds in the Salmonella/microsome test. *Carcinogenesis* 2:283-298.
- De Flora S, Zanacchi P, Camoirano A, et al. 1984. Genotoxic activity and potency of 135 compounds in the Ames reversion test and in a bacterial DNA-repair test. *Mutat Res* 133:161-198.
- De Groef B, Decallonne BR, Van der Geyten S, et al. 2006. Perchlorate versus other environmental sodium/iodide symporter inhibitors: Potential thyroid-related health effects. *Eur J Endocrinol* 155(1):17-25.
- DellaValle CT, Daniel CR, Aschebrook-Kilfoy B, et al. 2013. Dietary intake of nitrate and nitrite and risk of renal cell carcinoma in the NIH-AARP Diet and Health Study. *Br J Cancer* 108:205-212.
- Denshaw-Burke M, DelGiacco E, Curran AL, et al. 2013. Methemoglobinemia. In: Medscape. <http://emedicine.medscape.com/article/204178-overview>. May 13, 2014.
- De Roos AJ, Ward MH, Lynch CF, et al. 2003. Nitrate in public water supplies and the risk of colon and rectum cancers. *Epidemiology* 14(6):640-649.
- DOE. 2012. Protective action criteria (PAC). Oak Ridge, TN: U.S. Department of Energy and Subcommittee on Consequence Assessment and Protective Actions (SCAPA). <http://orise.orau.gov/emi/scapa/chem-pacs-teels/default.htm>. January 08, 2014.
- Donahoe WE. 1949. Cyanosis in infants with nitrates in drinking water as cause. *Pediatrics* 3(3):308-311.
- Dorsch MM, Scragg RK, McMichael AJ, et al. 1984. Congenital malformations and maternal drinking water supply in rural South Australia: A case-control study. *Am J Epidemiol* 119(4):473-486.
- *Druckrey H, Steinhoff D, Beuthner H, et al. 1963. Screening of nitrite for chronic toxicity in rats. *Arzneim Forsch* 13:320-323.
- Dusdieker LB, Getchell JP, Liarakos TM, et al. 1994. Nitrate in baby foods: Adding to the nitrate mosaic. *Arch Pediatr Adolesc Med* 148(5):490-494.
- DWI. 1999. Nitrate in drinking water and childhood-onset insulin-dependent diabetes mellitus in Scotland and central England. Drinking Water Inspectorate. DWI0801. <http://dwi.defra.gov.uk/research/completed-research/reports/dwi0801.pdf>. November 17, 2014.
- EEA. 2010. Data and maps. Maps and graphs. The nitrogen cycle. European Environment Agency. <http://www.eea.europa.eu/data-and-maps/figures/the-nitrogen-cycle>. July 8, 2014.
- Ehrenberg L, Hussain S, Noor Saleh M, et al. 1980. Nitrous esters: A genetical hazard from nitrogen oxides (NO_x)? *Hereditas* 92:127-130.
- Ek CJ, Dziegielewska KM, Habgood MD, et al. 2012. Barriers in the developing brain and neurotoxicology. *Neurotoxicology* 33(3):586-604.

9. REFERENCES

- El-Wakf AM, Hassan HA, El-said FG, et al. 2008. Hypothyroidism in male rats of different ages exposed to nitrate polluted drinking water. *Mansoura J Forensic Med Clin Toxicol* 15(2):77-89.
- El-Wakf AM, Hassan HA, Mahmoud AZ, et al. 2015. Fenugreek potent activity against nitrate-induced diabetes in young and adult male rats. *Cytotechnology* 67(3):437-447. 10.1007/s10616-014-9702-7.
- Engel LS, Chow WH, Vaughan TL, et al. 2003. Population attributable risks of esophageal and gastric cancers. *J Natl Cancer Inst* 95(18):1404-1413.
- Environment Canada. 2012. Nitrate ion. Canadian environmental quality guidelines. <http://ceqg-rceq.ccme.ca/download/en/197/>. May 20, 2014.
- EPA. 1990a. The drinking water criteria document on nitrate/nitrite. Washington, DC: U.S. Environmental Protection Agency. PB91142836.
- EPA. 1990b. Interim methods for development of inhalation reference concentrations. Washington, DC: U.S. Environmental Protection Agency, Office of Health and Environmental Assessment, Office of Research and Development. EPA600890066A. PB90238890.
- EPA. 1993. Method 353.2. Determination of nitrate-nitrite nitrogen by automated colorimetry. Cincinnati, OH: U.S. Environmental Protection Agency. http://water.epa.gov/scitech/methods/cwa/bioindicators/upload/2007_07_10_methods_method_353_2.pdf. May 21, 2014.
- EPA. 1997. Special report on environmental endocrine disruption: An effects assessment and analysis. Washington, DC: U.S. Environmental Protection Agency, Office of Pollution Prevention and Toxics. EPA630R96012.
- EPA. 1998. RCRA waste minimization PBT priority chemical list. U.S. Environmental Protection Agency. Fed Regist 63 FR 60332. <http://www.gpo.gov/fdsys>. January 08, 2014.
- EPA. 2008. Child-specific exposure facts handbook. Washington, DC: U.S. Environmental Protection Agency, National Center for Environmental Assessment, Office of Research and Development. EPA600R06096F.
- EPA. 2009a. Contaminant occurrence support document for category 2 contaminants for the second six-year review of national primary drinking water regulations. U.S. Environmental Protection Agency. EPA815B09011. http://water.epa.gov/lawsregs/rulesregs/regulatingcontaminants/sixyearreview/second_review/upload/6YearCategory2Report_final.pdf. May 21, 2014.
- EPA. 2009b. Drinking water contaminant candidate list. U.S. Environmental Protection Agency. Fed Regist 74 FR 51850:51850 -51862. <http://www.gpo.gov/fdsys>. January 08, 2014.
- EPA. 2009c. National primary drinking water regulations. Washington, DC: U.S. Environmental Protection Agency, Office of Ground Water and Drinking Water. EPA816F090004. <http://water.epa.gov/drink/contaminants/>. January 08, 2014.
- EPA. 2009d. Nitrogen and phosphorus loads in large rivers. Report on the environment. U.S. Environmental Protection Agency. <http://cfpub.epa.gov/eroe/index.cfm?fuseaction=detail.viewInd&lv=list.listbyalpha&r=216594&subtop=200>. June 17, 2015.

9. REFERENCES

- EPA. 2012a. CADDIS volume 2: Sources, stressors & responses. Ammonia: Simple conceptual diagram. Nitrogen cycle. U.S. Environmental Protection Agency. http://www.epa.gov/caddis/ssr_amm_nitrogen_cycle_popup.html. July 7, 2014.
- EPA. 2012b. Drinking water standards and health advisories. Washington, DC: U.S. Environmental Protection Agency, Office of Water. EPA822S12001. <http://water.epa.gov/drink/standards/hascience.cfm>. January 08, 2014.
- EPA. 2013a. Acute exposure guideline levels (AEGLs). Washington, DC: U.S. Environmental Protection Agency, Office of Pollution Prevention and Toxics. <http://www.epa.gov/oppt/aegl/>. January 08, 2014.
- EPA. 2013b. Designated as hazardous substances in accordance with section 311(b)(2)(a) of the Clean Water Act. U.S. Environmental Protection Agency. Code of Federal Regulations 40 CFR 116.4. <http://www.gpo.gov/fdsys>. January 08, 2014.
- EPA. 2013c. Identification and listing of hazardous waste. Hazardous constituents. U.S. Environmental Protection Agency. Code of Federal Regulations 40 CFR 261, Appendix VIII. <http://www.gpo.gov/fdsys>. January 08, 2014.
- EPA. 2013d. Reportable quantities of hazardous substances designated pursuant to section 311 of the Clean Water Act. U.S. Environmental Protection Agency. Code of Federal Regulations 40 CFR 117.3. <http://www.gpo.gov/fdsys>. January 08, 2014.
- EPA. 2013e. Standards for owners and operators of hazardous waste TSD facilities. Groundwater monitoring list. U.S. Environmental Protection Agency. Code of Federal Regulations 40 CFR 264, Appendix IX. <http://www.gpo.gov/fdsys>. January 08, 2014.
- EPA. 2013f. Superfund, emergency planning, and community right-to-know programs. Designation, reportable quantities, and notifications. U.S. Environmental Protection Agency. Code of Federal Regulations 40 CFR 302.4. <http://www.gpo.gov/fdsys>. January 08, 2014.
- EPA. 2013g. Superfund, emergency planning, and community right-to-know programs. Extremely hazardous substances and their threshold planning quantities. U.S. Environmental Protection Agency. Code of Federal Regulations 40 CFR 355, Appendix A. <http://www.gpo.gov/fdsys>. January 08, 2014.
- EPA. 2013h. Superfund, emergency planning, and community right-to-know programs. Toxic chemical release reporting. U.S. Environmental Protection Agency. Code of Federal Regulations 40 CFR 372.65. <http://www.gpo.gov/fdsys>. January 08, 2014.
- EPA. 2013i. Toxic Substances Control Act. Chemical lists and reporting periods. U.S. Environmental Protection Agency. Code of Federal Regulations 40 CFR 712.30. <http://www.gpo.gov/fdsys>. January 08, 2014.
- EPA. 2013j. Toxic Substances Control Act. Health and safety data reporting. U.S. Environmental Protection Agency. Code of Federal Regulations 40 CFR 716.120. <http://www.gpo.gov/fdsys>. January 08, 2014.
- EPA. 2014a. Hazardous air pollutants. Clean Air Act. U.S. Environmental Protection Agency. United States Code 42 USC 7412. <http://www.epa.gov/ttn/atw/orig189.html>. January 08, 2014.

9. REFERENCES

- EPA. 2014b. Inert ingredients permitted for use in nonfood pesticide products. Washington, DC: U.S. Environmental Protection Agency. <http://iaspub.epa.gov/apex/pesticides/f?p=124:1>. January 08, 2014.
- EPA. 2014c. Master testing list. Washington, DC: U.S. Environmental Protection Agency, Office of Pollution Prevention and Toxics. <http://www.epa.gov/opptintr/chemtest/pubs/mtl.html>. January 08, 2014.
- EPA. 2014d. National ambient air quality standards (NAAQS). Washington, DC: U.S. Environmental Protection Agency, Office of Air and Radiation. <http://www.epa.gov/air/criteria.html>. January 08, 2014.
- EPA. 2014e. National recommended water quality criteria. Washington, DC: U.S. Environmental Protection Agency, Office of Water, Office of Science and Technology. <http://water.epa.gov/scitech/swguidance/standards/criteria/current/index.cfm>. January 08, 2014.
- EPA. 2014f. Ammonium nitrate, CAS registry 6484-52-2; sodium nitrate, CAS registry 7631-99-4; sodium nitrite, CAS registry 7632-00-0; potassium nitrate, CAS registry 7757-79-1; potassium nitrite, CAS registry 7758-09-0. Pesticide chemical search. U.S. Environmental Protection Agency. <http://iaspub.epa.gov/apex/pesticides/f?p=CHEMICALSEARCH:1:0>. May 23, 2014.
- EPA. 2014g. 2012. Chemical data reporting (CDR) information on the production and use of chemicals manufactured or imported into the United States. U.S. Environmental Protection Agency. http://java.epa.gov/oppt_chemical_search/. November 17, 2014.
- Ericson A, Kallen B, Lofkvist E. 1988. Environmental factors in the etiology of neural tube defects: A negative study. *Environ Res* 45(1):38-47.
- Eskandari S, Loo DDF, Dai G, et al. 1997. Thyroid Na⁺/I⁻ symporter. *J Biol Chem*. 272(43):27230-27238.
- Eskiocak S, Dundar C, Basoglu T, et al. 2005. The effects of taking chronic nitrate by drinking water on thyroid functions and morphology. *Clin Exp Med* 5(2):66-71.
- Espejo-Herrera N, Cantor KP, Malats N, et al. 2015. Nitrate in drinking water and bladder cancer risk in Spain. *Environ Res* 137:299-307. 10.1016/j.envres.2014.10.034.
- Espejo-Herrera N, Gracia-Lavedan E, Boldo E, et al. 2016a. Colorectal cancer risk and nitrate exposure through drinking water and diet. *Int J Cancer* 139(2):334-346. 10.1002/ijc.30083.
- Espejo-Herrera N, Gracia-Lavedan E, Pollan M, et al. 2016b. Ingested nitrate and breast cancer in the Spanish multicase-control study on cancer (MCC-Spain). *Environ Health Perspect* 124(7):1042-1029. 10.1289/ehp.1510334.
- Exner ME, Perea-Estrada H, Spalding RF. 2010. Long-term response of groundwater nitrate concentrations to management regulations in Nebraska's central Platte valley. *Sci World J* 10:286-297.
- Fan AM, Steinberg VE. 1996. Health implications of nitrate and nitrite in drinking water: An update on methemoglobinemia occurrence and reproductive and developmental toxicity. *Regul Toxicol Pharmacol* 23(1 Part 1):35-43.

9. REFERENCES

- Fan AM, Willhite CC, Book SA. 1987. Evaluation of the nitrate drinking water standard with reference to infant methemoglobinemia and potential reproductive toxicity. *Regul Toxicol Pharmacol* 7(2):135-148.
- Fandrem SI, Kjuus H, Andersen A, et al. 1993. Incidence of cancer among workers in a Norwegian nitrate fertiliser plant. *Br J Ind Med* 50(7):647-652.
- Faucett RL, Miller HC. 1946. Methemoglobinemia occurring in infants fed milk diluted with well water of high nitrate content. *J Pediatr* 29(5):593-596.
- FDA. 2013. Requirements for specific standardized beverages. U.S. Food and Drug Administration. Code of Federal Regulations 21 CFR 165.110. <http://www.gpo.gov/fdsys>. January 08, 2014.
- FDA. 2014. Everything added to food in the United States (EAFUS). Washington, DC: U.S. Food and Drug Administration. <http://www.accessdata.fda.gov/scripts/fcn/fcnavigation.cfm?rpt=eafuslisting>. January 08, 2014.
- Ferrant M. 1946. Methemoglobinemia; two cases in newborn infants caused by nitrates in well water. *J Pediatr* 29(5):585-592.
- Fewtrell L. 2004. Drinking-water nitrate, methemoglobinemia, and global burden of disease: A discussion. *Environ Health Perspect* 112(14):1371-1374.
- Finan A, Keenan P, Donovan FO, et al. 1998. Methaemoglobinaemia associated with sodium nitrite in three siblings. *BMJ* 317(7166):1138-1139.
- Fomon SJ. 1966. Body composition of the infant: Part 1: The male reference infant. In: Faulkner F, ed. *Human development*. Philadelphia, PA: WB Saunders, 239-246.
- Fomon SJ, Haschke F, Ziegler EE, et al. 1982. Body composition of reference children from birth to age 10 years. *Am J Clin Nutr* 35(Suppl 5):1169-1175.
- Forman D, Al-Dabbagh S, Doll R. 1985. Nitrates, nitrites and gastric cancer in Great Britain. *Nature* 313(6004):620-625.
- Fraser P, Chilvers C, Day M, et al. 1989. Further results from a census based mortality study of fertilizer manufacturers. *Br J Ind Med* 46(1):38-42.
- Fraser P, Chilvers C, Goldblatt P. 1982. Census-based mortality study of fertilizer manufacturers. *Br J Ind Med* 39(4):323-329.
- Freedman DM, Cantor KP, Ward MH, et al. 2000. A case-control study of nitrate in drinking water and non-Hodgkin's lymphoma in Minnesota. *Arch Environ Health* 55(5):326-329.
- Friedman MA, Staub J. 1976. Inhibition of mouse testicular DNA synthesis by mutagens and carcinogens as a potential simple mammalian assay for mutagenesis. *Mutat Res* 37(1):67-76.
- Gangolli SD, Van Den Brandt PA, Feron VJ, et al. 1994. Nitrate, nitrite and N-nitroso compounds. *Eur J Pharmacol* 292:1-38.

9. REFERENCES

- Gatseva PD, Argirova MD. 2008. Iodine status and goitre prevalence in nitrate-exposed schoolchildren living in rural Bulgaria. *Public Health* 122(5):458-461.
- Gautami S, Rao RN, Raghuram TC, et al. 1995. Accidental acute fatal sodium nitrite poisoning. *J Toxicol Clin Toxicol* 33(2):131-133.
- George M, Wiklund L, Aastrup M, et al. 2001. Incidence and geographical distribution of sudden infant death syndrome in relation to content of nitrate in drinking water and groundwater levels. *Eur J Clin Invest* 31(12):1083-1094.
- Giles GG, McNeil JJ, Donnan G, et al. 1994. Dietary factors and the risk of glioma in adults: Results of a case-control study in Melbourne, Australia. *Int J Cancer* 59(3):357-362.
- Giri AK, Talukder G, Sharma A. 1986. Sister chromatid exchange induced by metanil yellow and nitrite singly and in combination *in vivo* on mice. *Cancer Lett* 31(3):299-303.
- Giwerzman A, Carlsen E, Keiding N, et al. 1993. Evidence for increasing incidence of abnormalities of the human testis: A review. *Environ Health Perspect* 101(Suppl 2):65-71.
- Globus M, Samuel D. 1978. Effect of maternally administered sodium nitrite on hepatic erythropoiesis in fetal CD-1 mice. *Teratology* 18(3):367-378.
- Gowans WJ. 1990. Fatal methaemoglobinaemia in a dental nurse. A case of sodium nitrite poisoning. *Br J Gen Pract* 40(340):470-471.
- Graf U, Frei H, Kaegi A, et al. 1989. Thirty compounds tested in the *Drosophila* wing spot test. *Mutat Res* 222(4):359-374.
- Grant D, Butler WH. 1989. Chronic toxicity of sodium nitrite in the male F344 rat. *Food Chem Toxicol* 27(9):565-571.
- Greenberg M, Birnkrant WB, Schiffner JJ. 1945. Outbreak of sodium nitrite poisoning. *Am J Public Health Nations Health* 35(11):1217-1220.
- Greenblatt M, Lijinsky W. 1972. Failure to induce tumors in Swiss mice after concurrent administration of amino acids and sodium nitrite. *J Natl Cancer Inst* 48(5):1389-1392.
- Greenblatt M, Lijinsky W. 1974. Carcinogenesis and chronic toxicity of nitrilotriacetic acid in Swiss mice. *J Natl Cancer Inst* 52(4):1123-1126.
- Greenblatt M, Mirvish SS. 1973. Dose-response studies with concurrent administration of piperazine and sodium nitrite to strain A mice. *J Natl Cancer Inst* 50(1):119-124.
- Greenblatt M, Kommineni VR, Lijinsky W. 1973. Null effect of concurrent feeding of sodium nitrite and amino acids to MRC rats. *J Natl Cancer Inst* 50(3):799-802.
- Greenblatt M, Mirvish S, So BT. 1971. Nitrosamine studies: Induction of lung adenomas by concurrent administration of sodium nitrite and secondary amines in Swiss mice. *J Natl Cancer Inst* 46(5):1029-1034.

9. REFERENCES

- Greer FR, Shannon M. 2005. Infant methemoglobinemia: The role of dietary nitrate in food and water. *Pediatrics* 116(3):784-786.
- Gruener N. 1974. The effect of nitrites on isolation-induced aggression in mice. *Pharmacol Biochem Behav* 2(2):267-269.
- Gruener N, Toeplitz R. 1975. The effect of changes in nitrate concentration in drinking water on methemoglobin levels in infants. *Int J Environ Stud* 7(3):161-163.
- Gupta SK, Fitzgerald JF, Chong SK, et al. 1998. Expression of inducible nitric oxide synthase (iNOS) mRNA in inflamed esophageal and colonic mucosa in a pediatric population. *Am J Gastroenterol* 93(5):795-798.
- Gupta SK, Gupta RC, Seth AK, et al. 1999. Adaptation of cytochrome-b5 reductase activity and methaemoglobinaemia in areas with a high nitrate concentration in drinking-water. *Bull World Health Organ* 77(9):749-753.
- Guzelian PS, Henry CJ, Olin SS. 1992. Similarities and differences between children and adults: Implications for risk assessment. Washington, DC: International Life Sciences and Press Institute Press.
- Hagmar L, Bellander T, Andersson C, et al. 1991. Cancer morbidity in nitrate fertilizer workers. *Int Arch Occup Environ Health* 63(1):63-68.
- Hammerl A, Klapotke TM. 2006. Nitrogen: Inorganic chemistry. In: *Encyclopedia of inorganic chemistry*. Wiley Online Library. <http://onlinelibrary.wiley.com/doi/10.1002/0470862106.ia157/abstract>. May 20, 2014.
- Hawkes CH, Cavanagh JB, Darling JL, et al. 1992. Chronic low-dose exposure of sodium nitrite in VM-strain mice: Central nervous system changes. *Hum Exp Toxicol* 11(4):279-281.
- Haymond S, Cariappa R, Eby CS, et al. 2005. Laboratory assessment of oxygenation in methemoglobinemia. *Clin Chem* 51(2):434-444.
- Health Canada. 2012. Nitrate and nitrite in drinking water. Health Canada. Federal-Provincial-Territorial Committee on Drinking Water. http://www.hc-sc.gc.ca/ewh-semt/alt_formats/pdf/consult/_2012/nitrite-nitrite/nitrite-nitrite-eng.pdf. May 21, 2014.
- Hegesh E, Shiloah J. 1982. Blood nitrates and infantile methemoglobinemia. *Clin Chim Acta* 125(2):107-115.
- Hellmer L, Bolcsfoldi G. 1992. An evaluation of the *Escherichia coli* K-12 uvrB/recA DNA repair host-mediated assay: II. *In vivo* results for 36 compounds tested in the mouse. *Mutat Res* 272(2):161-173.
- Henderson WR, Raskin NH. 1972. "Hot dog" headache: Individual susceptibility to nitrite. *Lancet* 2(Dec):1162-1163.
- Hibbs JB, Westenfelder C, Taintor R, et al. 1992. Evidence for cytokine-inducible nitric oxide synthesis from L-arginine in patients receiving interleukin-2 therapy. *J Clin Invest* 89(3):867-877.
- Hirose M, Fukushima S, Hasegawa R, et al. 1990. Effects of sodium nitrite and catechol or 3-methoxycatechol in combination on rat stomach epithelium. *Jpn J Cancer Res* 81(9):857-861.

9. REFERENCES

- Hirose M, Nishikawa A, Shibutani M, et al. 2002. Chemoprevention of heterocyclic amine-induced mammary carcinogenesis in rats. *Environ Mol Mutagen* 39(2-3):271-278.
- Hirose M, Tanaka H, Takahashi S, et al. 1993. Effects of sodium nitrite and catechol, 3-methoxycatechol, or butylated hydroxyanisole in combination in a rat multiorgan carcinogenesis model. *Cancer Res* 53(1):32-37.
- Hoel DG, Davis DL, Miller AB, et al. 1992. Trends in cancer mortality in 15 industrialized countries, 1969-1986. *J Natl Cancer Inst* 84(5):313-320.
- Holtby CE, Guernsey JR, Allen AC, et al. 2014. A population-based case-control study of drinking-water nitrate and congenital anomalies using geographic information systems (GIS) to develop individual-level exposure estimates. *Int J Environ Res Public Health* 11(2):1803-1823. 10.3390/ijerph110201803.
- Hord NG. 2011. Dietary nitrates, nitrites, and cardiovascular disease. *Curr Atheroscler Rep* 13(6):484-492.
- HSDB. 2003. Urea. Hazardous Substances Data Bank. National Library of Medicine. <http://toxnet.nlm.nih.gov>. November 17, 2014.
- HSDB. 2007. Ammonium nitrate, sodium nitrate, sodium nitrite, potassium nitrate, and potassium nitrite. Hazardous Substances Data Bank. National Library of Medicine. <http://toxnet.nlm.nih.gov>. May 21, 2014.
- HSDB. 2012. Ammonia. Hazardous Substances Data Bank. National Library of Medicine. <http://toxnet.nlm.nih.gov>. November 17, 2014.
- Huber JC, Jr., Brender JD, Zheng Q, et al. 2013. Maternal dietary intake of nitrates, nitrites and nitrosamines and selected birth defects in offspring: A case-control study. *Nutrition journal* 12:34.
- Hugot D, Causeret J, Richir C. 1980. The influence of large amounts of sodium nitrite on reproductive performances in female rats. *Ann Nutr Aliment* 34:1115-1124.
- Huizenga JR, Tangerman A, Gips CH. 1994. Determination of ammonia in biological fluids. *Ann Clin Biochem* 31(Pt 6):529-543.
- Hunault CC, Lambers AC, Mensinga TT, et al. 2007. Effects of sub-chronic nitrate exposure on the thyroidal function in humans. *Toxicol Lett* 175(1-3):64-70.
- Huncharek M, Kupelnick B. 2004. A meta-analysis of maternal cured meat consumption during pregnancy and the risk of childhood brain tumors. *Neuroepidemiology* 23(1-2):78-84.
- Huncharek M, Kupelnick B, Wheeler L. 2003. Dietary cured meat and the risk of adult glioma: A meta-analysis of nine observational studies. *J Environ Pathol Toxicol Oncol* 22(2):129-137.
- Iammarino M, Di Taranto A, Cristino M. 2014. Monitoring of nitrites and nitrates levels in leafy vegetables (spinach and lettuce): A contribution to risk assessment. *J Sci Food Agric* 94(4):773-778. 10.1002/jsfa.6439.

9. REFERENCES

- IARC. 2010. Ingested nitrate and nitrite. In: Ingested nitrate and nitrite, and cyanobacterial peptide toxins. IARC Monographs on the evaluation of the carcinogenic risk of chemicals to humans. Vol. 94. Lyon, France: International Agency for Research on Cancer, World Health Organization, 45-325.
- IARC. 2014. Agents classified by the IARC monographs. Volumes 1-109. Lyon, France: International Agency for Research on Cancer. <http://monographs.iarc.fr/ENG/Classification/index.php>. May 15, 2014.
- Ibrahim YI, Ninnis JR, Hopper AO, et al. 2012. Inhaled NO therapy increases blood nitrite, nitrate and S-nitrosohemoglobin concentrations in infants with pulmonary hypertension. *J Pediatr* 160(20):245-251.
- Ilnitsky AP, Kolpakova AS. 1997. The enhancing effect of sodium nitrite on virus-induced leukemia in mice. *Cancer Detect Prev* 21(4):312-318.
- Imaizumi K, Tyuma I, Imai K, et al. 1980. *In vivo* studies on methemoglobin formation by sodium nitrite. *Int Arch Occup Environ Health* 45(2):97-104.
- Inai K, Aoki Y, Tokuoka S. 1979. Chronic toxicity of sodium nitrite in mice, with reference to its tumorigenicity. *Gann* 70(2):203-208.
- Inoue K, Shibata T, Kosaka H, et al. 1985. Induction of sister-chromatid exchanges by n-nitrosocimetidine in cultured human lymphocytes and its inhibition by chemical compounds. *Mutat Res* 156:117-121.
- Inoue-Choi M, Jones RR, Anderson KE, et al. 2015. Nitrate and nitrite ingestion and risk of ovarian cancer among postmenopausal women in Iowa. *Int J Cancer* 137(1):173-182. 10.1002/ijc.29365.
- Inoue-Choi M, Ward MH, Cerhan JR, et al. 2012. Interaction of nitrate and folate on the risk of breast cancer among postmenopausal women. *Nutr Cancer* 64(5):685-694.
- Inui N, Nishi Y, Mori M, et al. 1979. Detection of 8-azaguanine resistant mutants of embryonic cells induced by products formed in the stomach on oral administration of sodium nitrite plus aminopyrine to pregnant golden hamsters. *Proceedings of the Japan Academy, Series B* 55(6):286-289.
- IRIS. 2002. Nitrite (CASRN 14797-65-0), nitrate (CASRN 14797-55-8). Integrated Risk Information System. Washington, DC: U.S. Environmental Protection Agency. <http://www.epa.gov/iris/>. January 08, 2014.
- Ishidate MJ, Sofuni T, Yoshikawa K. 1981. Chromosomal aberration tests in vitro as a primary screening tool for environmental mutagens and/or carcinogens. *Gann Monogr Cancer Res* 27:95-108.
- Ishidate MJ, Sofuni T, Yoshikawa K, et al. 1984. Primary mutagenicity screening of food additives currently used in Japan. *Food Chem Toxicol* 22(8):623-636.
- Iurchenko VA, Linnik AB, Il'nitskii AP. 1986. [Carcinogenic hazard of small doses of nitrite in connection with the endogenous synthesis of nitroso compounds]. *Eksp Onkol* 8(1):41-44.
- Ivankovic S. 1979. Teratogenic and carcinogenic effects of some chemicals during prenatal life in rats, Syrian golden hamsters, and minipigs. *Natl Cancer Inst Monogr* 51:103-115.
- Ivankovic S, Preussmann R. 1970. Transplacental production of malignant tumors after oral dose of ethylurea and nitrite to rats. *Naturwissenschaften* 57:460.

9. REFERENCES

- Jablonska S. 1975. Ingestion of ammonium nitrate as a possible cause of erythema dyschromicum perstans (ashy dermatosis). *Dermatologica* 150(5):287-291.
- Jansen EHJ, Van Den Berg RH, Boink ABT, et al. 1995. A new physiological biomarker for nitrate exposure in humans. *Toxicol Lett* 77(1-3):265-269.
- Jansson EA, Huang L, Malkey R, et al. 2008. A mammalian functional nitrate reductase that regulates nitrite and nitric oxide homeostasis. *Nat Chem Biol* 4(7):411-417.
- JECFA. 2003a. Nitrate (and potential endogenous formation of N-nitroso compounds). WHO Food Additives Series 50. Joint Expert Committee on Food Additives. International Programme on Chemical Safety. <http://www.inchem.org/documents/jecfa/jecmono/v50je06.htm>. May 22, 2014.
- JECFA. 2003b. Nitrite (and potential endogenous formation of N-nitroso compounds). WHO Food Additives Series 50. Joint Expert Committee on Food Additives. International Programme on Chemical Safety. 1057. <http://www.inchem.org/documents/jecfa/jecmono/v50je05.htm>. December 18, 2013.
- JECFA. 2003c. Nitrate and nitrite: Intake assessment. WHO Food Additives Series 50. Joint Expert Committee on Food Additives. 1059. <http://www.inchem.org/documents/jecfa/jecmono/v50je07.htm>. December 18, 2013.
- Johnson CJ, Bonrud PA, Dosch TL, et al. 1987. Fatal outcome of methemoglobinemia in an infant. *J Am Med Assoc* 257(20):2796.
- Jones HJ, Sethney HT, Schoenhals GW, et al. 1973. Grandmother's poisoned well: Report of a case of methemoglobinemia in an infant in Oklahoma. *J Okla State Med Assoc* 66(2):60-66.
- Jones JA, Hopper AO, Power GG, et al. 2015. Dietary intake and bio-activation of nitrite and nitrate in newborn infants. *Pediatr Res* 77(1-2):173-181. 10.1038/pr.2014.168.
- Jones JA, Ninnis JR, Hopper AO, et al. 2014. Nitrite and nitrate concentrations and metabolism in breast milk, infant formula, and parenteral nutrition. *JPEN J Parenter Enteral Nutr* 38(7):856-866. 10.1177/0148607113496118.
- Joossens JV, Hill MJ, Elliott P, et al. 1996. Dietary salt, nitrate and stomach cancer mortality in 24 countries. European Cancer Prevention (ECP) and the INTERSALT Cooperative Research Group. *Int J Epidemiol* 25(3):494-504.
- Kahn HD, Stralka K. 2009. Estimated daily average per capita water ingestion by child and adult age categories based on USDA's 1994-1996 and 1998 continuing survey of food intakes by individuals. *J Expo Sci Environ Epidemiol* 19(4):396-404.
- Kamiyama S, Ohshima H, Shimada A, et al. 1987. Urinary excretion of N-nitrosamino acids and nitrate by inhabitants in high and low-risk areas for stomach cancer in northern Japan. *IARC Sci Publ* 84:497-502.
- Kanady JA, Aruni AW, Ninnis JR, et al. 2012. Nitrate reductase activity of bacteria in saliva of term and preterm infants. *Nitric Oxide* 27(4):193-200.

9. REFERENCES

- Kaplan A, Smith C, Promnitz DA, et al. 1990. Methaemoglobinaemia due to accidental sodium nitrite poisoning. Report of 10 cases. *S Afr Med J* 77(6):300-301.
- Kawabe M, Takaba K, Yoshida Y, et al. 1994. Effects of combined treatment with phenolic compounds and sodium nitrite on two-stage carcinogenesis and cell proliferation in the rat stomach. *Jpn J Cancer Res* 85(1):17-25.
- Kearns GL, Abdel-Rahman SM, Alander SW, et al. 2003. Developmental pharmacology-drug disposition, action, and therapy in infants and children. *N Engl J Med* 349(12):1157-1167.
- Keating JP, Lell ME, Strauss AW, et al. 1973. Infantile methemoglobinemia caused by carrot juice. *N Engl J Med* 288(16):824-826.
- Kelley ST, Oehme FW, Hoffman SB. 1974. Effect of chronic dietary nitrates on canine thyroid function. *Toxicol Appl Pharmacol* 27(1):200-203.
- Khera KS. 1982. Reduction of teratogenic effects of ethylenethiourea in rats by interaction with sodium nitrite *in vivo*. *Food Chem Toxicol* 20:273-278.
- Kilfoy BA, Ward MH, Zheng T, et al. 2010. Risk of non-Hodgkin lymphoma and nitrate and nitrite from the diet in Connecticut women. *Cancer Causes Control* 21(6):889-896. 10.1007/s10552-010-9517-6.
- Kilfoy BA, Zhang Y, Park Y, et al. 2011. Dietary nitrate and nitrite and the risk of thyroid cancer in the NIH-AARP Diet and Health Study. *Int J Cancer* 129(1):160-172. 10.1002/ijc.25650.
- Kim HJ, Lee SS, Choi BY, et al. 2007. Nitrate intake relative to antioxidant vitamin intake affects gastric cancer risk: A case-control study in Korea. *Nutr Cancer* 59(2):185-191.
- Kim SJ, Rim KT, Kim JK, et al. 2011. Evaluation of the genetic toxicity of cyclopentane and ammonium nitrate *in vitro* mammalian chromosomal aberration assay in Chinese hamster ovary cells. *Saf Health Work* 2(1):17-25.
- Kissel DE, Cabrera ML, Paramasivam S. 2008. Ammonium, ammonia, and urea reactions in soils. In: Schepers JS, Raun WR, eds. *Nitrogen in agricultural systems*. Madison, WI: American Society of Agronomy, Inc., Crop Science Society of America, Inc., Soil Science Society of America, Inc., 101-155.
- Kitano M, Takada N, Chen T, et al. 1997. Carcinogenicity of methylurea or morpholine in combination with sodium nitrite in rat multi-organ carcinogenesis bioassay. *Jpn J Cancer Res* 88(9):797-806.
- Kitchen NR, Blanchard PE, Lerch RN. 2015. Long-term agroecosystem research in the central Mississippi river basin: Hydrogeologic controls and crop management influence on nitrates in loess and fractured glacial till. *J Environ Qual* 44(1):58-70. 10.2134/jeq2014.09.0405.
- Kleinjans JC, Albering HJ, Marx A, et al. 1991. Nitrate contamination of drinking water evaluation of genotoxic risk in human populations. *Environ Health Perspect* 94(0):189-194.
- Knaapen AM, Schins RP, Borm PJ, et al. 2005. Nitrite enhances neutrophil-induced DNA strand breakage in pulmonary epithelial cells by inhibition of myeloperoxidase. *Carcinogenesis* 26(9):1642-1648. 10.1093/carcin/bgi116.

9. REFERENCES

- Knekt P, Jarvinen R, Dich J, et al. 1999. Risk of colorectal and other gastro-intestinal cancers after exposure to nitrate, nitrite and N-nitroso compounds: A follow-up study. *Int J Cancer* 80(6):852-856.
- Knight TM, Forman D, Pirastu R, et al. 1990. Nitrate and nitrite exposure in Italian populations with different gastric cancer rates. *Int J Epidemiol* 19(3):510-515.
- Komori M, Nishio K, Kitada M, et al. 1990. Fetus-specific expression of a form of cytochrome P-450 in human livers. *Biochemistry* 29(18):4430-4433.
- Kortboyer JM, Boink ABTJ, Schothorst RC, et al. 1998b. Healthy volunteer study investigating the feasibility of an oral bioavailability study of nitrate from vegetables. The Netherlands: National Institute of Public Health and the Environment. RIVM Report 235802012.
- Kortboyer JM, Boink ABTJ, Zeilmaker MJ, et al. 1997a. Methemoglobin formation due to nitrite: Dose-effect relationship *in vitro*. The Netherlands: National Institute of Public Health and the Environment. RIVM Report 235802006.
- Kortboyer JM, Colbers EHP, Vaessen HAMG, et al. 1995. A pilot-study to investigate nitrate and nitrite kinetics in healthy volunteers with normal and artificially increased gastric pH after sodium nitrate ingestion. In: Health aspects of nitrate and its metabolites (particularly nitrite). Strasbourg: Publishing and Documentation Service, Council of Europe Press, 269-286.
- Kortboyer JM, Olling M, Zeilmaker MJ, et al. 1997b. The oral bioavailability of sodium nitrite investigated in healthy adult volunteers Bilthoven, Netherlands: National Institute for Public Health and the Environment. RIVM Report No. 235802007.
- Kortboyer JM, Schothorst RC, Zeilmaker MJ, et al. 1998a. Intravenous administration of sodium nitrite in healthy volunteers: A single ascending dose study. The Netherlands: National Institute of Public Health and the Environment. RIVM Report 235802011.
- Kosaka H, Imaizumi K, Imai K, et al. 1979. Stoichiometry of the reaction of oxyhemoglobin with nitrite. *Biochim Biophys Acta* 581(1):184-188.
- Kostraba JN, Gay EC, Rewers M, et al. 1992. Nitrate levels in community drinking waters and risk of IDDM: An ecological analysis. *Diabetes Care* 15(11):1505-1508.
- Kramer SB, Reganold JP, Glover JD, et al. 2006. Reduced nitrate leaching and enhanced denitrifier activity and efficiency in organically fertilized soils. *Proc Natl Acad Sci USA* 103(12):4522-4527.
- Krishnan K, Andersen ME. 1994. Physiologically based pharmacokinetic modeling in toxicology. In: Hayes AW, ed. *Principles and methods of toxicology*. 3rd ed. New York, NY: Raven Press, Ltd., 149-188.
- Krishnan K, Anderson ME, Clewell HJ, et al. 1994. Physiologically based pharmacokinetic modeling of chemical mixtures. In: Yang RSH, ed. *Toxicology of chemical mixtures. Case studies, mechanisms, and novel approaches*. San Diego, CA: Academic Press, 399-437.
- La Vecchia C, Ferraroni M, D'Avanzo B, et al. 1994. Selected micronutrient intake and the risk of gastric cancer. *Cancer Epidemiol Biomarkers Prev* 3(5):393-398.

9. REFERENCES

- La Vecchia C, Negri E, Franceschi S, et al. 1997. Case-control study on influence of methionine, nitrite, and salt on gastric carcinogenesis in northern Italy. *Nutr Cancer* 27(1):65-68.
- Lambers AC, Kortboyer JM, Schothorst RC, et al. 2000. The oral bioavailability of nitrate from vegetables investigated in health volunteers. The Netherlands: National Institute of Public Health and the Environment. RIVM Report 235802014.
- Lee M, Wrensch M, Miike R. 1997. Dietary and tobacco risk factors for adult onset glioma in the San Francisco Bay Area (California, USA). *Cancer Causes Control* 8(1):13-24.
- Leeder JS, Kearns GL. 1997. Pharmacogenetics in pediatrics: Implications for practice. *Pediatr Clin North Am* 44(1):55-77.
- Leikin JB, Paloucek FP. 2008. Poisoning and toxicology handbook. 4th ed. Boca Raton, FL: CRC Press, 830.
- Leung H. 1993. Physiologically-based pharmacokinetic modelling. In: Ballantyne B, Marrs T, Turner P, eds. *General and applied toxicology*. Vol. 1. New York, NY: Stockton Press, 153-164.
- Levallois P, Ayotte P, Van Maanen JMS, et al. 2000. Excretion of volatile nitrosamines in a rural population in relation to food and drinking water consumption. *Food Chem Toxicol* 38(11):1013-1019.
- Lewis RJ. 2002. Sodium nitrate. In: *Sax's dangerous properties of industrial materials*. Hoboken, NJ: John Wiley & Sons, Inc, 3265.
- L'hirondel J, L'hirondel JL. 2002. The case against nitrate: A critical examination. In: *Nitrate and man. Toxic, harmless or beneficial?* Wallingford, UK: CABI Publishing, 35-69.
- Lide DR. 2013. Sodium nitrate. In: *CRC handbook of chemistry and physics*. 94th ed. Boca Raton, FL: Taylor & Francis Group, LLC, 4-90.
- Lijinsky W. 1984a. Induction of tumors of the nasal cavity in rats by concurrent feeding of thiram and sodium nitrite. *J Toxicol Environ Health* 13(4-6):609-614.
- Lijinsky W. 1984b. Induction of tumours in rats by feeding nitrosatable amines together with sodium nitrite. *Food Chem Toxicol* 22(9):715-720.
- Lijinsky W, Greenblatt M. 1972. Carcinogen dimethylnitrosamine produced *in vivo* from nitrite and aminopyrine. *Nat New Biol* 236(67):177-178.
- Lijinsky W, Reuber MD. 1980. Tumors induced in Fischer 344 rats by the feeding of disulfiram together with sodium nitrite. *Food Cosmet Toxicol* 18(1):85-87.
- Lijinsky W, Taylor HW. 1977. Feeding tests in rats on mixtures of nitrite with secondary and tertiary amines of environmental importance. *Food Cosmet Toxicol* 15:269-274.
- Lijinsky W, Greenblatt M, Kommineni C. 1973a. Brief communication: Feeding studies of nitrilotriacetic acid and derivatives in rats. *J Natl Cancer Inst* 50(4):1061-1063.
- Lijinsky W, Kovatch R, Riggs CW. 1983. Altered incidences of hepatic and hemopoietic neoplasms in F344 rats fed sodium nitrite. *Carcinogenesis* 4(9):1189-1191.

9. REFERENCES

- Lijinsky W, Taylor HW, Snyder C, et al. 1973b. Malignant tumours of liver and lung in rats fed aminopyrine or heptamethyleneimine together with nitrite. *Nature* 244(5412):176-178.
- Lin JK, Ho YS. 1992. Hepatotoxicity and hepatocarcinogenicity in rats fed squid with or without exogenous nitrite. *Food Chem Toxicol* 30(8):695-702.
- Lin K, Shen W, Shen Z, et al. 2003. Estimation of the potential for nitrosation and its inhibition in subjects from high- and low-risk areas for esophageal cancer in southern China. *Int J Cancer* 107(6):891-895.
- Livingston AL. 1978. Forage plant estrogens. *J Toxicol Environ Health* 4(2-3):301-324.
- Lu SH, Ohshima H, Fu HM, et al. 1986. Urinary excretion of n nitrosamino-acids and nitrate by inhabitants of high-risk and low-risk areas for esophageal cancer in northern China: Endogenous formation of nitrosoproline and its inhibition by vitamin C. *Cancer Res* 46(3):1485-1491.
- Luca D, Luca V, Cotor F, et al. 1987. *In vivo* and *in vitro* cytogenetic damage induced by sodium nitrite. *Mutat Res* 189(3):333-340.
- Luca D, Raileanu L, Luca V, et al. 1985. Chromosomal aberrations and micronuclei induced in rat and mouse bone marrow cells by sodium nitrate. *Mutat Res* 155(3):121-126.
- Lundberg JO, Govoni M. 2004. Inorganic nitrate is a possible source for systemic generation of nitric oxide. *Free Radic Biol Med* 37(3):395-400.
- Lundberg JO, Weitzberg E. 2013. Biology of nitrogen oxides in the gastrointestinal tract. *Gut* 62(4):616-629.
- Lundberg JO, Gladwin MT, Ahluwalia A, et al. 2009. Nitrate and nitrite in biology, nutrition and therapeutics. *Nat Chem Biol* 5(12):865-869.
- Lundberg JO, Weitzberg E, Gladwin MT. 2008. The nitrate-nitrite-nitric oxide pathway in physiology and therapeutics. *Nat Rev Drug Discov* 7(2):156-167.
- Lynch SC, Gruenwedel DW, Russell GF. 1983. Mutagenic activity of a nitrosated early Maillard product: DNA synthesis (DNA repair) induced in HeLa S3 carcinoma cells by nitrosated 1-(N-L-tryptophan)-1-deoxy-D-fructose. *Food Chem Toxicol* 21(5):551-556.
- Machha A, Schechter AN. 2012. Inorganic nitrate: A major player in the cardiovascular health benefits of vegetables? *Nutr Rev* 70(6):367-372.
- Maekawa A, Ishiawata H, Odashima S. 1977. Transplacental carcinogenesis and chemical determination of 1-butyl-1-nitrosourea in stomach content after simultaneous oral administration of 1-butylurea and sodium nitrite to ACI rats. *Gann* 68(1):81-88.
- Maekawa A, Ogiu T, Onodera H, et al. 1982. Carcinogenicity studies of sodium nitrite and sodium nitrate in F-344 rats. *Food Chem Toxicol* 20(1):25-33.
- Malberg JW, Savage EP, Osteryoung J. 1978. Nitrates in drinking water and the early onset of hypertension. *Environ Pollut* 15:155-160.

9. REFERENCES

- Manassaram DM, Backer LC, Messing R, et al. 2010. Nitrates in drinking water and methemoglobin levels in pregnancy: A longitudinal study. *Environ Health* 9:60.
- Markusova K, Kohutova L, Dzurov J. 1996. Programmed-potential voltammetric determination of nitrate as a static mercury drop electrode in natural waters and soil extracts. *Electroanalysis* 8(6):582-584.
- Marshall PA, Trenerry VC. 1996. The determination of nitrite and nitrate in foods by capillary ion electrophoresis. *Food Chem* 57(2):339-345.
- Martinez A, Sanchez-Valverde F, Gil F, et al. 2013. Methemoglobinemia induced by vegetable intake in infants in northern Spain. *J Pediatr Gastroenterol Nutr* 56(5):573-577.
10.1097/MPG.0b013e3182849d2b.
- Mascher F, Marth E. 1993. Metabolism and effect of nitrates. *Cent Eur J Public Health* 1(1):49-52.
- Matsukura N, Kawachi T, Sasajima K, et al. 1977. Induction of liver tumors in rats by sodium nitrite and methylguanidine. *Z Krebsforsch* 90(1):87-94.
- Matsumoto K, Tanaka H. 1996. Formation and dissociation of atmospheric particulate nitrate and chloride: An approach based on phase equilibrium. *Atmos Environ* 30(4):639-648.
- Mayne ST, Risch HA, Dubrow R, et al. 2001. Nutrient intake and risk of subtypes of esophageal and gastric cancer. *Cancer Epidemiol Biomarkers Prev* 10(10):1055-1062.
- Mayr U, Butsch A, Schneider S. 1992. Validation of two *in vitro* test systems for estrogenic activities with zearalenone, phytoestrogens and cereal extracts. *Toxicology* 74(2-3):135-149.
- McCann J, Choi E, Yamasaki E, et al. 1975. Detection of carcinogens as mutagens in the salmonella/microsome test: Assay of 300 chemicals. *Proc Natl Acad Sci USA* 72:5135-5139.
- McElroy JA, Trentham-Dietz A, Gangnon RE, et al. 2008. Nitrogen-nitrate exposure from drinking water and colorectal cancer risk for rural women in Wisconsin, USA. *J Water Health* 6(3):399-409.
- McKnight GM, Smith LM, Drummond RS, et al. 1997. Chemical synthesis of nitric oxide in the stomach from dietary nitrate in humans. *Gut* 40(2):211-214.
- McLetchie NGB, Robertson HE. 1994. Nitrate poisoning from well-water. *Can Med Assoc J* 60:230-233.
- Medovy H. 1948. Well-water methemoglobinemia in infants, its occurrence in rural Manitoba and Ontario. *J Lancet* 68(5):194-196.
- Michaud DS, Holick CN, Batchelor TT, et al. 2009. Prospective study of meat intake and dietary nitrates, nitrites, and nitrosamines and risk of adult glioma. *Am J Clin Nutr* 90(3):570-577.
- Miller LW. 1971. Methemoglobinemia associated with well water. *J Am Med Assoc* 216(10):1642-1643.

9. REFERENCES

- Mirvish SS, Bulay O, Runge RG, et al. 1980. Study of the carcinogenicity of large doses of dimethylnitramine, n-nitroso-l-proline, and sodium nitrite administered in drinking water to rats. *J Natl Cancer Inst* 64(6):1435-1442.
- Mirvish SS, Greenblatt M, Kommineni VR. 1972. Nitrosamide formation *in vivo*: Induction of lung adenomas in Swiss mice by concurrent feeding of nitrite and methylurea or ethylurea. *J Natl Cancer Inst* 48(5):1311-1315.
- Mirvish SS, Patil K, Ghadirian P, et al. 1975. Disappearance of nitrite from the rat stomach: Contribution of emptying and other factors. *J Natl Cancer Inst* 54(4):869-875.
- Mirvish SS, Pelfrene AF, Garcia H, et al. 1976. Effect of sodium ascorbate on tumor induction in rats treated with morpholine and sodium nitrite, and with nitrosomorpholine. *Cancer Lett* 2(2):101-108.
- Mirvish SS, Salmasi S, Cohen SM, et al. 1983. Liver and forestomach tumors and other forestomach lesions in rats treated with morpholine and sodium nitrite, with and without sodium ascorbate. *J Natl Cancer Inst* 71(1):81-85.
- Miyauchi M, Nakamura H, Furukawa F, et al. 2002. Promoting effects of combined antioxidant and sodium nitrite treatment on forestomach carcinogenesis in rats after initiation with N-methyl-N'-nitro-N-nitrosoguanidine. *Cancer Lett* 178(1):19-24.
- Mokhtar NM, el-Aaser AA, el-Bolkainy MN, et al. 1988. Effect of soybean feeding on experimental carcinogenesis-III. Carcinogenicity of nitrite and dibutylamine in mice: A histopathological study. *Eur J Cancer Clin Oncol* 24(3):403-411.
- Moller H. 1997. Work in agriculture, childhood residence, nitrate exposure, and testicular cancer risk: A case-control study in Denmark. *Cancer Epidemiol Biomarkers Prev* 6(2):141-144.
- Moller H, Landt J, Jensen P, et al. 1989. Nitrate exposure from drinking water and diet in a Danish rural population. *Int J Epidemiol* 18(1):206-212.
- Moltchanova E, Rytönen M, Kousa A, et al. 2004. Zinc and nitrate in the ground water and the incidence of Type 1 diabetes in Finland. *Diabet Med* 21(3):256-261.
- Momen B, Zehr JP, Boylen CW, et al. 1999. Determinants of summer nitrate concentration in a set of Adirondack lakes, New York. *Water Air Soil Pollut* 111(1-4):19-28.
- Monser L, Sadok S, Greenway GM, et al. 2002. A simple simultaneous flow injection method based on phosphomolybdenum chemistry for nitrate and nitrite determinations in water and fish samples. *Talanta* 57:511-518.
- Morales Suarez-Varela M, Llopis Gonzalez A, Tejerizo Perez ML, et al. 1993. Concentration of nitrates in drinking water and its relationship with bladder cancer. *J Environ Pathol Toxicol Oncol* 12(4):229-236.
- Morales Suarez-Varela M, Llopis Gonzalez A, Tejerizo Perez ML. 1995. Impact of nitrates in drinking water on cancer mortality in Valencia, Spain. *Eur J Epidemiol* 11(1):15-21.
- Morselli PL, Franco-Morselli R, Bossi L. 1980. Clinical pharmacokinetics in newborns and infants: Age-related differences and therapeutic implications. *Clin Pharmacokinet* 5(6):485-527.

9. REFERENCES

- Mueller BA, Searles Nielsen S, Preston-Martin S, et al. 2004. Household water source and the risk of childhood brain tumours: Results of the SEARCH International Brain Tumor Study. *Int J Epidemiol* 33(6):1209-1216.
- Mulvaney RL. 1996. Nitrogen-inorganic forms. In: Sparks DL, ed. *Methods of soil analysis. Part 3. Chemical Methods*. Madison, WI: Soil Science Society of America, Inc. and American Society of Agronomy Inc., 1123-1184.
- Mukhopadhyay S, Ghosh D, Chatterjee A, et al. 2005. Evaluation of possible goitrogenic and anti-thyroidal effect of nitrate, a potential environmental pollutant. *Indian J Physiol Pharmacol* 49(3):284-288.
- Murthy AS, Baker JR, Smith ER, et al. 1979. Neoplasms in rats and mice fed butylurea and sodium nitrite separately and in combination. *Int J Cancer* 23(2):253-259.
- NAS/NRC. 1989. Report of the oversight committee. *Biologic markers in reproductive toxicology*. Washington, DC: National Academy of Sciences, National Research Council, National Academy Press, 15-35.
- Nasseri-Moghaddam S, Mofid A, Razjouyan H. 2011. Dietary nitrate may have a role in development of gastro-esophageal reflux disease. *Arch Iran Med* 14(5):312-314.
- Newberne PM. 1979. Nitrite promotes lymphoma incidence in rats. *Science* 204(4397):1079-1081.
- Newberne PM, Shank RC. 1973. Induction of liver and lung tumours in rats by the simultaneous administration of sodium nitrite and morpholine. *Food Cosmet Toxicol* 11(5):819-825.
- Newton WE. 2005. Nitrogen fixation. In: Kirk-Othmer encyclopedia of chemical toxicology. <http://onlinelibrary.wiley.com/doi/10.1002/0471238961.1409201814052320.a01.pub2/abstract>. May 21, 2014.
- NFPA. 2002. In: Spencer AB, Colonna GR, eds. *Fire protection guide to hazardous materials*. Quincy, MA: National Fire Protection Association, 49-19, 704-710.
- Nicola JP, Basquin C, Portulano C, et al. 2009. The Na⁺/I⁻ symporter mediates active iodide uptake in the intestine. *Am J Physiol Cell Physiol*. 296(4):C654-662.
- NIOSH. 1994a. Acids, inorganic. Method 7903, Issue 2. NIOSH Manual of Analytical Methods. National Institute for Occupational Safety and Health. <http://www.cdc.gov/niosh/docs/2003-154/pdfs/7903.pdf>. May 20, 2014.
- NIOSH. 1994b. Nitric oxide and nitrogen dioxide. Method 6014, Issue 1. NIOSH Manual of Analytical Methods. National Institute for Occupational Safety and Health. <http://www.cdc.gov/niosh/docs/2003-154/pdfs/6014-1.pdf>. May 20, 2014.
- NIOSH. 1998. Nitric dioxide (diffusive sampler). Method 6700, Issue 2. NIOSH Manual of Analytical Methods. National Institute for Occupational Safety and Health. <http://www.cdc.gov/niosh/docs/2003-154/pdfs/6700.pdf>. May 20, 2014.

9. REFERENCES

- NIOSH. 2014. NIOSH pocket guide to chemical hazards. Atlanta, GA: National Institute for Occupational Safety and Health, Centers for Disease Control and Prevention. <http://www.cdc.gov/niosh/npg/>. January 08, 2014.
- Nishiyama K, Ando-Lu J, Ishimura S, et al. 1998. Initiating and promoting effects of concurrent oral administration of ethylenethiourea and sodium nitrite on uterine endometrial adenocarcinoma development in Donryu rats. *In Vivo* 12(4):363-368.
- Nixon JE, Koller LD, Exon JH. 1979. Effect of methylmercury chloride on transplacental tumors induced by sodium nitrite and ethylurea in rats. *J Natl Cancer Inst* 63:1057-1963.
- Nolan BT. 1999. Nitrate behavior in ground waters of the Southeastern USA. *J Environ Qual* 28(5):1518-1527.
- Nolan BT, Ruddy BC, Hitt KJ, et al. 1997. Risk of nitrate in groundwaters of the United States: A national perspective. *Environ Sci Technol* 31(8):2229-2236.
- Norat T, Lukanova A, Ferrari P, et al. 2002. Meat consumption and colorectal cancer risk: Dose-response meta-analysis of epidemiological studies. *Int J Cancer* 98(2):241-256.
- Nordin RN, Pommen LW. 1986. Water quality criteria for nitrogen (nitrate, nitrite, and ammonia). Victoria, BC: Ministry of Environment and Parks Province of British Columbia.
- NRC. 1993. Pesticides in the diets of infants and children. Washington, DC: National Research Council. National Academy Press. PB93216091.
- NTP. 2001. Toxicology and carcinogenesis studies of sodium nitrite in F 344/N rats and B6C3F1 mice (drinking water studies). National Toxicology Program Technical Report Series 495.
- NTP. 2011. Report on carcinogens. Research Triangle Park, NC: U.S. Department of Health and Human Services, Public Health Service, National Toxicology Program. <http://ntp-server.niehs.nih.gov/ntp/roc/twelfth/roc12.pdf>. January 08, 2014.
- Nyakas C, Buwalda B, Kramers RJ, et al. 1994. Postnatal development of hippocampal and neocortical cholinergic and serotonergic innervation in rat: Effects of nitrite-induced prenatal hypoxia and nimodipine treatment. *Neuroscience* 59(3):541-559.
- Nyakas C, Markel E, Bohus B, et al. 1990. Protective effect of the calcium antagonist nimodipine on discrimination learning deficits and impaired retention behavior caused by prenatal nitrite exposure in rats. *Behav Brain Res* 38(1):69-76.
- Ohshima H, Bartsch H. 1988. Urinary N-nitrosamino acids as an index of exposure to N-nitroso compounds. In: Bartsch H, Hemminki K, O'Neil IK, eds. *Methods for detecting DNA damaging agents in humans: Applications in cancer epidemiology and prevention*. Vol. 89. International Agency for Research on Cancer Institute of Occupational Health, Finland Commission of the European Communities, 83-91.
- Oka K, Betto K, Nishimori I. 1974. Development of sarcomata in the livers of albino rats given sodium nitrite and dimethylamine. (Report 1). *Acta Med Nagasaki* 18:13-25.

9. REFERENCES

- Oliveira CP, Gloria MB, Barbour JF, et al. 1995. Nitrate, nitrite, and volatile nitrosamines in whey-containing food products. *J Agric Food Chem* 43(4):967-969.
- Olsen P, Gry J, Knudsen I, et al. 1984. Animal feeding study with nitrite-treated meat. *International Agency for Research on Cancer. IARC Sci Publ* 57:667-676.
- Oms MT, Cerda A, Cerda V. 1995. Sequential injection analysis of nitrites and nitrates. *Anal Chim Acta* 315(3):321-330.
- Ormerod AD, Shah AAJ, Li H, et al. 2011. An observational prospective study of topical acidified nitrite for killing methicillin-resistant *Staphylococcus aureus* (MRSA) in contaminated wounds. *BioMed Central. BMC Res Notes* 4(1):1-7. <http://dx.doi.org/10.1186/1756-0500-4-458>. July 9, 2014.
- OSHA. 2013a. List of highly hazardous chemicals, toxics, and reactives. Occupational safety and health standards. Occupational Safety and Health Administration. Code of Federal Regulations 29 CFR 1910.119, Appendix A. <http://www.osha.gov/law-regs.html>. January 08, 2014.
- OSHA. 2013b. Toxic and hazardous substances. Occupational safety and health standards. Occupational Safety and Health Administration. Code of Federal Regulations 29 CFR 1910.1000, Table Z-1. <http://www.osha.gov/law-regs.html>. January 08, 2014.
- Owen GM, Brozek J. 1966. Influence of age, sex and nutrition on body composition during childhood and adolescence. In: Falkner F, ed. *Human development*. Philadelphia, PA: WB Saunders, 222-238.
- Owens LB, Edwards WM, Van Keuren RW. 1994. Groundwater nitrate levels under fertilized grass and grass-legume pastures. *J Environ Qual* 23(4):752-758.
- Palli D, Russo A, Decarli A. 2001. Dietary patterns, nutrient intake and gastric cancer in a high-risk area of Italy. *Cancer Causes Control* 12(2):163-172.
- Parslow RC, McKinney PA, Law GR, et al. 1997. Incidence of childhood diabetes mellitus in Yorkshire, northern England, is associated with nitrate in drinking water: An ecological analysis. *Diabetologia* 40(5):550-556.
- Pavlov J, Attygalle AB. 2013. Direct detection of inorganic nitrate salts by ambient pressure helium-plasma ionization mass spectrometry. *Anal Chem* 85(1):278-282.
- Perez-Rodriguez ML, Bosch-Bosch N, Garcia-Mata M. 1996. Monitoring nitrite and nitrate residues in frankfurters during processing and storage. *Meat Sci* 44(1-2):65-73.
- Petersen A, Stoltze S. 1999. Nitrate and nitrite in vegetables on the Danish market: Content and intake. *Food Addit Contam* 16(7):291-299.
- Pfenning KS, McMahon PB. 1997. Effect of nitrate, organic carbon, and temperature on potential denitrification rates in nitrate-rich riverbed sediments. *J Hydrol* 187(3-4):283-295.
- Pliss GB, Frolov AG. 1991. Sodium nitrite as possible promotor of carcinogenesis in the bladder of rats. *Vopr Onkol* 37(2):203-206.

9. REFERENCES

- Pogoda JM, Preston-Martin S. 2001a. Maternal cured meat consumption during pregnancy and risk of paediatric brain tumour in offspring: Potentially harmful levels of intake. *Public Health Nutr* 4(2):183-189.
- Pogoda JM, Preston-Martin S. 2001b. Letter to the editor: Maternal cured meat consumption during pregnancy and risk of paediatric brain tumour in offspring: Potentially harmful levels of intake, authors' response. *Public Health Nutr* 4:1304-1305.
- Pokomy L, Maturana I, Bortle WH. 2006. Sodium nitrate and nitrite. In: *Kirk-Othmer encyclopedia of chemical technology*. John Wiley & Sons, Inc. 10.1002/0471238961.1915040916151115.a01.pub2.
- Power GG, Bragg SL, Oshiro BT, et al. 2007. A novel method of measuring reduction of nitrite-induced methemoglobin applied to fetal and adult blood of humans and sheep. *J Appl Physiol* 103:1359-1365.
- Preston-Martin S, Pogoda JM, Mueller BA, et al. 1996. Maternal consumption of cured meats and vitamins in relation to pediatric brain tumors. *Cancer Epidemiol Biomarkers Prev* 5(8):599-605.
- Qin L, Liu X, Sun Q, et al. 2012. Sialin (SLC17A5) functions as a nitrate transporter in the plasma membrane. *Proc Natl Acad Sci USA*. 109(33):13434-13439.
- Rádiková Z, Tajtakova M, Kocan A, et al. 2008. Possible effects of environmental nitrates and toxic organochlorines on human thyroid in highly polluted areas in Slovakia. *Thyroid* 18(3):353-362.
- Rafnsson V, Gunnarsdottir H. 1990. Mortality study of fertiliser manufacturers in Iceland. *Br J Ind Med* 47(11):721-725.
- RePORTER. 2014. Ammonium nitrate, nitrates, potassium nitrate, sodium nitrate, sodium nitrite. Research Portfolio Online Reporting Tools (RePORT). National Institutes of Health, U.S. Department of Health and Human Services. <http://projectreporter.nih.gov/reporter.cfm>. April 7, 2014.
- Rijhsinghani KS, Abrahams C, Krakower C, et al. 1982. Tumor induction in C57BL X C3HF1 mice following single oral administration of diethylamine hydrochloride (DEA . HCl) and sodium nitrite (NaNO₂). *Cancer Detect Prev* 5(3):283-290.
- Ringling S, Boo T, Bottei E. 2003. Methemoglobinemia from nitrite-contaminated punch. *J Toxicol Clin Toxicol* 41(5):730-731.
- Risch HA, Jain M, Choi NW, et al. 1985. Dietary factors and the incidence of cancer of the stomach. *Am J Epidemiol* 122(6):947-959.
- RIVM. 1996. On the etiology of nitrite-induced hypertrophy of the zona glomerulosa of rats: II. The possible role of feed. National Institute for Public Health and the Environment. RIVM Report 235802004. http://www.rivm.nl/en/Documents_and_publications/Scientific/Reports/1996/juli/On_the_etiology_of_nitrite_induced_hypertrophy_of_the_zona_glomerulosa_of_rats_II_The_possible_role_of_feed?sp=cml2bXE9ZmFsc2U7c2VhcmNoYmFzZT0yMjkwMDtyaXZtcT1mYWxzZTs=&pagenr=2291. July 8, 2015.
- Rix PJ, Vick A, Atkins NJ, et al. 2015. Pharmacokinetics, pharmacodynamics, safety, and tolerability of nebulized sodium nitrite (AIR001) following repeat-dose inhalation in healthy subjects. *Clin Pharmacokinet* 54(3):261-272. 10.1007/s40262-014-0201-y.

9. REFERENCES

- Robbiano L, Carlo P, Finollo R, et al. 1990. DNA damage induced in rats by oral administration of chlordiazepoxide plus sodium nitrite or of N-nitrosochlordiazepoxide. *Toxicol Appl Pharmacol* 102(1):186-190.
- Robertson HE, Riddell WA. 1949. Cyanosis of infants produced by high nitrate concentration in rural waters of Saskatchewan. *Can J Public Health* 40(2):72-77.
- Rodkey FL. 1976. A mechanism for the conversion of oxyhemoglobin to methemoglobin by nitrite. *Clin Chem* 22(12):1986-1990.
- Rogers MA, Vaughan TL, Davis S, et al. 1995. Consumption of nitrate, nitrite, and nitrosodimethylamine and the risk of upper aerodigestive tract cancer. *Cancer Epidemiol Biomarkers Prev* 4(1):29-36.
- RTECS. 2014. Ammonium nitrate, sodium nitrate, potassium nitrite, potassium nitrate and nitrous acid, sodium salt. Registry of Toxic Effects on Chemical Substances. National Institute of Occupational Safety and Health. MDL Information Systems, Inc. July 8, 2014.
- Rustia M, Shubik P. 1974. Prenatal induction of neurogenic tumors in hamsters by precursors ethylurea and sodium nitrite. *J Natl Cancer Inst* 52(2):605-608.
- Sackner MA, Dougherty RD, Chapman GA, et al. 1979. Effects of sodium nitrate aerosol on cardiopulmonary function of dogs, sheep and man. *Environ Res* 18(2):421-436.
- Sadeq M, Moe CL, Attarassi B, et al. 2008. Drinking water nitrate and prevalence of methemoglobinemia among infants and children aged 1-7 years in Moroccan areas. *Int J Hyg Environ Health* 211(5-6):546-554.
- Saito T, Takeichi S, Osawa M, et al. 2000. A case of fatal methemoglobinemia of unknown origin but presumably due to ingestion of nitrate. *Int J Legal Med* 113(3):164-167.
<http://dx.doi.org/10.1007/s004140050290>. May 23, 2014.
- Sanchez-Echaniz J, Benito-Fernandez J, Mintegui-Raso S. 2001. Methemoglobinemia and consumption of vegetables in infants. *Pediatrics* 107(5):1024-1028.
- Sandhu MS, White IR, McPherson K. 2001. Systematic review of the prospective cohort studies on meat consumption and colorectal cancer risk: A meta-analytical approach. *Cancer Epidemiol Biomarkers Prev* 10(5):439-446.
- Saunders NR, Ek CJ, Habgood MD, et al. 2008. Barriers in the brain: A renaissance? *Trends Neurosci* 31(6):279-286.
- Saunders NR, Liddelow SA, Dziegielewska KM. 2012. Barrier mechanisms in the developing brain. *Front Pharmacol* 3(10.3389/fphar.2012.00046):Article 46.
- Schepers JS, Moravek MG, Alberts EE, et al. 1991. Maize production impacts on groundwater quality. *J Environ Qual* 20(1):12-16.
- Scherer-Lorenzen M, Palmborg C, Prinz A, et al. 2003. The role of plant diversity and composition for nitrate in leaching in grasslands. *Ecology* 84(6):1539-1552.

9. REFERENCES

- Scheunig G, Horn KH, Mehnert WH. 1979. [Induction of tumors in Wistar-rats after oral application of aminopyrine and nitrite (author's translation)]. Arch Geschwulstforsch 49(3):220-228.
- Scheuplein R, Charnley G, Dourson M. 2002. Differential sensitivity of children and adults to chemical toxicity. I. Biological basis. Regul Toxicol Pharmacol 35(3):429-447.
- Schmitz JT. 1961. Methemoglobinemia-a cause of abortions? Preliminary report. Obstet Gynecol 17:413-415.
- Schultz DS, Deen WM, Karel SF, et al. 1985. Pharmacokinetics of nitrate in humans: Role of gastrointestinal absorption and metabolism. Carcinogenesis 6(6):847-852.
- Scragg RK, Dorsch MM, McMichael AJ, et al. 1982. Birth defects and household water supply. Epidemiological studies in the Mount Gambier region of South Australia. Med J Aust 2(12):577-579.
- Seifert SA. 2004. Nitrates and nitrites. In: Dart RC, ed. Medical toxicology. 3rd ed. Philadelphia, PA: Lippincott Williams & Williams, 1174-1180.
- Sevier JN, Berbatis CG. 1976. Accidental sodium nitrite ingestion. Med J Aust 1(May):847.
- Shaffer MJ, Wylie BK, Hall MD. 1995. Identification and mitigation of nitrite leaching hot spots using NLEAP-GIS technology. J Contam Hydrol 20:253-263.
- Shank RC, Newberne PM. 1976. Dose-response study of the carcinogenicity of dietary sodium nitrite and morpholine in rats and hamsters. Food Cosmet Toxicol 14(1):1-8.
- *Sharma MK, Sharma H, Bapna N. 2011. A study of toxicological effects of high nitrate ingestion in rabbits. Journal of Biomedical Sciences and Research 3(3):439-443.
- *Sharma MK, Sharma H, Bapna N. 2013. Histopathological changes in the liver of rabbits exposed to high nitrate ingestion in drinking water. J Clin Diagn Res 7(8):1552-1554.
- Sheehy MH, Way JL. 1974. Nitrite intoxication: Protection with methylene blue and oxygen. Toxicol Appl Pharmacol 30(Nov):221-226.
- Shimada T. 1989. Lack of teratogenic and mutagenic effects of nitrite on mouse fetuses. Arch Environ Health 44(1):59-63.
- Shuval HI, Gruener N. 1972. Epidemiological and toxicological aspects of nitrates and nitrites in the environment. Am J Public Health 62(8):1045-1052.
- Sierra R, Chinnock A, Ohshima H, et al. 1993. *In vivo* nitrosoproline formation and other risk factors in Costa Rican children from high- and low-risk areas for gastric cancer. Cancer Epidemiol Biomarkers Prev 2(6):563-568.
- Siervo M, Lara J, Ogbonmwan I, et al. 2013. Inorganic nitrate and beetroot juice supplementation reduces blood pressure in adults: A systematic review and meta-analysis. J Nutr 143(6):818-826.
- Simon C, Manzke H, Kay H, et al. 1964. Occurrence, pathogenesis, and possible prophylaxis of nitrite induced methemoglobinemia. Z Kinderheilkd 91:124-138.

9. REFERENCES

- Sleight SD, Atallah OA. 1968. Reproduction in the guinea pig as affected by chronic administration of potassium nitrate and potassium nitrite. *Toxicol Appl Pharmacol* 12:179-185.
- Small H, Stevens TS, Bauman WC. 1975. Novel ion exchange chromatographic method using conductimetric detection. *Anal Chem* 47:1801-1809.
- *Smyth HF, Jr, Carpenter CP, Weil CS, et al. 1969. Range-finding toxicity data: List VII. *Am Ind Hyg Assoc J*. 30(5):470-476.
- SRI. 2011. Sodium nitrate, sodium nitrite and potassium nitrite. In: 2011 Directory of chemical producers. Menlo Park, CA: SRI Consulting, 816, 849.
- Stafford GE. 1947. Methemoglobinemia in infants from water containing high concentrations of nitrates. *Nebr State Med J* 32(10):392-394.
- Steinhorn RH. 2008. Evaluation and management of the cyanotic neonate. *Clin Pediatr Emerg Med* 9(3):169-175.
- Sun J, Zhang X, Broderick M, et al. 2003. Measurement of nitric oxide production in biological systems by using Griess Reaction assay. *Sensors* 3(8):276-284. <http://www.mdpi.com/1424-8220/3/8/276>. May 24, 2014.
- Super M, Heese HdV, MacKenzie D, et al. 1981. An epidemiological study of well-water nitrates in a group of south west African/Namibian infants. *Water Res* 15:1265-1270.
- Tabacova S, Baird DD, Balabaeva L. 1998. Exposure to oxidized nitrogen: Lipid peroxidation and neonatal health risk. *Arch Environ Health* 53(3):214-221.
- Tabacova S, Balabaeva L, Little RE. 1997. Maternal exposure to exogenous nitrogen compounds and complications of pregnancy. *Arch Environ Health* 52(5):341-347.
- Tahira T, Ohgaki H, Wakabayashi K, et al. 1988. The inhibitory effect of thioproline on carcinogenesis induced by n-benzylmethylaniline and nitrite. *Food Chem Toxicol* 26(6):511-516.
- Tajtáková M, Semanova Z, Tomkova Z, et al. 2006. Increased thyroid volume and frequency of thyroid disorders signs in schoolchildren from nitrate polluted area. *Chemosphere* 62(4):559-564.
- Taylor AW. 2004. Fertilizers. In: Kirk-Othmer encyclopedia of chemical toxicology. <http://onlinelibrary.wiley.com/doi/10.1002/0471238961.0605182008150606.a01.pub2/abstract>. May 21, 2014.
- Taylor HW, Lijinsky W. 1975a. Tumor induction in rats by feeding aminopyrine or oxytetracycline with nitrite. *Int J Cancer* 16(2):211-215.
- Taylor HW, Lijinsky W. 1975b. Tumor induction in rats by feeding heptamethyleneimine and nitrite in water. *Cancer Res* 35(3):812-815.
- Ten Brink WA, Wiezer JH, Luijpen AF, et al. 1982. Nitrite poisoning caused by food contaminated with cooling fluid. *J Toxicol Clin Toxicol* 19(2):139-147.

9. REFERENCES

- TFI. 2014. History of U.S. fertilizer use. The Fertilizer Institute: http://httpwww.tfi.org/sites/default/files/images/history_of_us_fert_use.pdf. November 17, 2014.
- Thomas K, Colborn T. 1992. Organochlorine endocrine disruptors in human tissue. In: Colborn T, Clement C, eds. Chemically induced alterations in sexual and functional development: The wildlife/human connection. Princeton, NJ: Princeton Scientific Publishing, 365-394.
- Tietz NW, ed. 1970. Fundamentals of clinical chemistry. Philadelphia, PA: W.B. Saunders Company, 665, 666, 729-731.
- Til HP, Falke HE, Kuper CF, et al. 1988. Evaluation of the oral toxicity of potassium nitrite in a 13-week drinking-water study in rats. *Food Chem Toxicol* 26(10):851-859.
- Til HP, Kuper CF, Falke HE. 1997. Nitrite-induced adrenal effects in rats and the consequences for the no-observed-effect level. *Food Chem Toxicol* 35(3-4):349-355.
- Toernqvist M, Rannug U, Jonsson A, et al. 1983. Mutagenicity of methyl nitrite in *Salmonella typhimurium*. *Mutat Res* 117:47-54.
- TRI13. 2014. TRI explorer: Providing access to EPA's toxics release inventory data. Washington, DC: Office of Information Analysis and Access. Office of Environmental Information. U.S. Environmental Protection Agency. Toxics Release Inventory. <http://www.epa.gov/triexplorer/>. November 17, 2014.
- Tsezou A, Kitsiou-Tzeli S, Galla A, et al. 1996. High nitrate content in drinking water: Cytogenetic effects in exposed children. *Arch Environ Health* 51(6):458-461.
- Tsikas D. 2005. Methods of quantitative analysis of the nitric oxide metabolites nitrite and nitrate in human biological fluids. *Free Radic Res* 39(8):797-815.
- Tsuda H, Kato K. 1977. High rate of endoreduplications and chromosomal aberrations in hamster cells treated with sodium nitrite *in vitro*. *Mutat Res* 56(1):69-74.
- Tsuda H, Inui N, Takayama S. 1973. *In vitro* transformation of newborn hamster cells by sodium nitrite. *Biochem Biophys Res Commun* 55:1117-1124.
- Tsuda H, Kushi A, Yoshida D, et al. 1981. Chromosomal aberrations and sister-chromatid exchanges induced by gaseous nitrogen dioxide in cultured Chinese hamster cells. *Mutat Res* 89(4):303-310.
- Tsugane S, Tsuda M, Gey F, et al. 1992. Cross-sectional study with multiple measurements of biological markers for assessing stomach cancer risks at the population level. *Environ Health Perspect* 98:207-210.
- USDA. 2013. U.S. imports (1995-2012) and exports (1990-2012) of selected fertilizers, by country. U.S. Department of Agriculture. <http://www.ers.usda.gov/data-products/fertilizer-importexports/standard-tables.aspx>. April 1, 2014.
- USDA. 2014. Soil quality indicators. Soil nitrate. U.S. Department of Agriculture, Natural Resources Conservation Service. http://www.nrcs.usda.gov/wps/PA_NRCSCConsumption/download?cid=stelprdb1243373&ext=pdf. July 10, 2014.

9. REFERENCES

- USGS. 2009. Nutrient trends in streams and rivers of the United States, 1993-2003. National Water-Quality Assessment Program. Reston, VA: U.S. Geological Survey. U.S. Department of the Interior. Scientific Investigations Report 2008-5202.
- USGS. 2010a. The quality of our nation's water-nutrients in the nation's streams and groundwater, 1992-2004. National Water-Quality Assessment Program. Reston, VA: U.S. Geological Survey. U.S. Department of the Interior. Circular 1350.
- USGS. 2010b. Nitrate loads and concentrations in surface-water base flow and shallow groundwater for selected basins in the United States, water years 1990-2006. National Water-Quality Assessment Program. Reston, VA: U.S. Geological Survey. U.S. Department of the Interior. Scientific Investigations Report 2010-5098.
- USGS. 2012. Nitrate-nitrogen concentrations in shallow ground water of the coastal plain of the Albemarle-Pamlico drainage study units, North Carolina and Virginia. U.S. Geological Survey. U.S. Department of the Interior. Fact Sheet 241-96. <http://nc.water.usgs.gov/reports/fs24196/>. May 20, 2014.
- USGS. 2013a. Groundwater contributions of flow, nitrate, and dissolved organic carbon to the lower San Joaquin River, California, 2006-08. Scientific Investigations Report 2013-5151. <http://pubs.usgs.gov/sir/2013/5151/pdf/sir2013-5151.pdf>. September 5, 2016.
- USGS. 2013b. Nitrate in the Mississippi River and its tributaries, 1980-2010: An update. National Water-Quality Assessment Program. Reston, VA: U.S. Geological Survey. U.S. Department of the Interior. Scientific Investigations Report 2013-5169.
- Valentín-Blasini L, Blount BC, Delinsky A. 2007. Quantification of iodide and sodium-iodide symporter inhibitors in human urine using ion chromatography tandem mass spectrometry. *J Chromatogr A* 1155(1):40-46.
- van Logten MJ, den Tonkelaar EM, Kroes R, et al. 1972. Long-term experiment with canned meat treated with sodium nitrite and glucono-delta-lactone in rats. *Food Cosmet Toxicol* 10(4):475-488.
- van Maanen JM, Albering HJ, de Kok TM, et al. 2000. Does the risk of childhood diabetes mellitus require revision of the guideline values for nitrate in drinking water? *Environ Health Perspect* 108(5):457-461.
- van Maanen JM, van Geel AA, Kleinjans JC. 1996b. Modulation of nitrate-nitrite conversion in the oral cavity. *Cancer Detect Prev.* 20(6):590-596.
- van Maanen JMS, Welle IJ, Hageman G, et al. 1996a. Nitrate contamination of drinking water: Relationship with HPRT variant frequency in lymphocyte DNA and urinary excretion of N-nitrosamines. *Environ Health Perspect* 104(5):522-528.
- Velthof GL, Lesschen JP, Webb J, et al. 2014. The impact of the Nitrates Directive on nitrogen emissions from agriculture in the EU-27 during 2000-2008. *Sci Total Environ* 468-469:1225-1233.
- Vieira I, Sonnier M, Cresteil T. 1996. Developmental expression of CYP2E1 in the human liver: Hypermethylation control of gene expression during the neonatal period. *Eur J Biochem* 238(2):476-483.
- Virtanen SM, Jaakkola L, Rasanen L, et al. 1994. Nitrate and nitrite intake and the risk for type 1 diabetes in Finnish children. Childhood Diabetes in Finland Study Group. *Diabet Med* 11(7):656-662.

9. REFERENCES

- Vitousek PM, Aber JD, Howarth RW, et al. 1997. Human alteration of the global nitrogen cycle: Sources and consequences. Ecological Society of America. *Ecol Appl* 7(3):737-750. http://www.esa.org/esa/?post_type=document&p=2770. 2014/07/08.
- Vorhees CV, Butcher RE, Brunner RL, et al. 1984. Developmental toxicity and psychotoxicity of sodium nitrite in rats. *Food Chem Toxicol* 22(1):1-6.
- Wagner DA, Schultz DS, Deen WM, et al. 1983. Metabolic fate of an oral dose of ¹⁵N-labeled nitrate in humans: Effect of diet supplementation with ascorbic acid. *Cancer Res* 43(4):1921-1925.
- Walker R. 1995. The conversion of nitrate into nitrite in several animal species and man. In: Health aspects of nitrate and its metabolites (particularly nitrite). Proceedings of an international workshop, Bilthoven (Netherlands) 8-10 November 1994. Strasbourg: Council of Europe Press, 115-123.
- Walker R. 1996. The metabolism of dietary nitrites and nitrates. 658th Meeting of the Biochemical Society, Liverpool, England, UK, April 16-19, 1996. *Biochemical Society Transactions* 24(3):780-785.
- Walley T, Flanagan M. 1987. Nitrite-induced methaemoglobinaemia. *Postgrad Med J* 63(742):643-644.
- Walton G. 1951. Survey of literature relating infant methemoglobinemia due to nitrate-contaminated water. *Am J Public Health* 41:986-996.
- Wang W, Fan Y, Xiong G, et al. 2012. Nitrate in drinking water and bladder cancer: A meta-analysis. *J Huazhong Univ Sci Technolog* 32(6):912-918. 10.1007/s11596-012-1057-8.
- Ward MH, Cantor KP, Riley D, et al. 2003. Nitrate in public water supplies and risk of bladder cancer. *Epidemiology* 14(2):183-190. 10.1097/01.ede.0000050664.28048.df.
- Ward MH, Cerhan JR, Colt JS, et al. 2006. Risk of non-Hodgkin lymphoma and nitrate and nitrite from drinking water and diet. *Epidemiology* 17(4):375-382.
- Ward MH, Heineman EF, Markin RS, et al. 2008. Adenocarcinoma of the stomach and esophagus and drinking water and dietary sources of nitrate and nitrite. *Int J Occup Environ Health* 14(3):193-197.
- Ward MH, Kilfoy BA, Weyer PJ, et al. 2010. Nitrate intake and the risk of thyroid cancer and thyroid disease. *Epidemiology* 21(3):389-395.
- Ward MH, Mark SD, Cantor KP, et al. 1996. Drinking water nitrate and the risk of non-Hodgkin's lymphoma. *Epidemiology* 7(5):465-471.
- Ward MH, Rusiecki JA, Lynch CF, et al. 2007. Nitrate in public water supplies and the risk of renal cell carcinoma. *Cancer Causes Control* 18(10):1141-1151.
- Wardak C, Grabarczyk M. 2016. Analytical application of solid contact ion-selective electrodes for determination of copper and nitrate in various food products and drinking water. *J Environ Sci Health B* 51(8):519-524. 10.1080/03601234.2016.1170545.
- Weisburger JH, Marquardt H, Hirota N, et al. 1980. Induction of cancer of the glandular stomach in rats by an extract of nitrite-treated fish. *J Natl Cancer Inst* 64(1):163-167.

9. REFERENCES

- Weitzberg E, Lundberg JO. 2013. Novel aspects of dietary nitrate and human health. *Annu Rev Nutr* 33:129-159.
- Weitzberg E, Hezel M, Lundberg JO. 2010. Nitrate-nitrite-nitric oxide pathway: Implications for anesthesiology and intensive care. *Anesthesiology* 113(6):1460-1475.
- West JR, Smith HW, Chasis H. 1948. Glomerular filtration rate, effective renal blood flow, and maximal tubular excretory capacity in infancy. *J Pediatr* 32:10-18.
- Weyer PJ, Cerhan JR, Kross BC, et al. 2001. Municipal drinking water nitrate level and cancer risk in older women: The Iowa Women's Health Study. *Epidemiology* 12(3):327-338.
- WHO. 1978. Nitrates, nitrites and N-nitroso compounds. Environmental Health Criteria 5. World Health Organization. <http://www.inchem.org/documents/ehc/ehc/ehc005.htm>. July 8, 2014.
- WHO. 2010. WHO guidelines for indoor air quality: Selected pollutants. Geneva, Switzerland: World Health Organization. http://www.euro.who.int/__data/assets/pdf_file/0009/128169/e94535.pdf. January 08, 2014.
- WHO. 2011a. Guidelines for drinking-water quality. Geneva, Switzerland: World Health Organization. http://www.who.int/water_sanitation_health/publications/2011/dwq_guidelines/en/index.html. January 08, 2014.
- WHO. 2011b. Nitrate and nitrite in drinking-water. Background document for development of WHO Guidelines for Drinking-water Quality. Geneva, Switzerland: World Health Organization. WHO/SDE/WSH/07.01/16/Rev/1. http://www.who.int/entity/water_sanitation_health/dwq/chemicals/nitratenitrite_background.pdf. December 18, 2013.
- Widdowson EM, Dickerson JWT. 1964. Chemical composition of the body. In: Comar CL, Bronner F, eds. Mineral metabolism: An advance treatise. Volume II: The elements Part A. New York, NY: Academic Press, 1-247.
- Wilkens LR, Kadir MM, Kolonel LN, et al. 1996. Risk factors for lower urinary tract cancer: The role of total fluid consumption, nitrites and nitrosamines, and selected foods. *Cancer Epidemiol Biomarkers Prev* 5(3):161-166.
- Winchester PD, Huskins J, Ying J. 2009. Agrichemicals in surface water and birth defects in the United States. *Acta Paediatr* 98:664-669.
- Winton EF, Tardiff RG, McCabe LJ. 1971. Nitrate in drinking water. *J Am Water Works Assoc* 63(2):95-98.
- Wu T, Wang Y, Ho S, et al. 2013. Plasma levels of nitrate and risk of prostate cancer: A prospective study. *Cancer Epidemiol Biomarkers Prev* 22(7):1210-1218.
- Wu Y, Chen J, Ohshima H, et al. 1993. Geographic association between urinary excretion of N-nitroso compounds and oesophageal cancer mortality in China. *Int J Cancer* 54(5):713-719.
- Xiang YY, Wang DY, Tanaka M, et al. 1995. Efficient and specific induction of esophageal tumors in rats by precursors of N-nitrososarcosine ethyl ester. *Pathol Int* 45(6):415-421.

9. REFERENCES

- Yada H, Hirose M, Tamano S, et al. 2002. Effects of antioxidant 1-O-hexyl-2,3,5-trimethylhydroquinone or ascorbic acid on carcinogenesis induced by administration of aminopyrine and sodium nitrite in a rat multi-organ carcinogenesis model. *Jpn J Cancer Res* 93(12):1299-1307.
- Yamamoto K, Nakajima A, Eimoto H, et al. 1989. Carcinogenic activity of endogenously synthesized n-nitrosobis-2-hydroxypropylamine in rats administered bis-2-hydroxypropylamine and sodium nitrite. *Carcinogenesis* 10(9):1607-1612.
- Yan H, Zhuo X, Shen B, et al. 2016. Determination of nitrite in whole blood by high-performance liquid chromatography with electrochemical detection and a case of nitrite poisoning. *J Forensic Sci* 61(1):254-258. 10.1111/1556-4029.12918.
- Yang YJ, Hwang SH, Kim HJ. 2010. Dietary intake of nitrate relative to antioxidant vitamin in relation to breast cancer risk: A case-control study. *Nutr Cancer* 62(5):555-566.
- Yano SS, Danish EH, Hsia YE. 1982. Transient methemoglobinemia with acidosis in infants. *J Pediatr* 100(3):415-418.
- Yoshida A, Harada T, Hayashi S, et al. 1994. Endometrial carcinogenesis induced by concurrent oral administration of ethylenethiourea and sodium nitrite in mice. *Carcinogenesis* 15(10):2311-2318.
- Yoshida A, Harada T, Maita K. 1993. Tumor induction by concurrent oral administration of ethylenethiourea and sodium nitrite in mice. *Toxicol Pathol* 21(3):303-310.
- Yoshizumi K, Aoki K, Matsuoka T, et al. 1985. Determination of nitrate by a flow system with a chemiluminescent nitrogen oxides analyzer. *Anal Chem* 57(3):737-740.
- Zaki A, Ait Chaoui A, Talibi A, et al. 2004. Impact of nitrate intake in drinking water on the thyroid gland activity in male rat. *Toxicol Lett* 147(1):27-33.
- Zeegers MP, Selen RF, Kleinjans JC, et al. 2006. Nitrate intake does not influence bladder cancer risk: The Netherlands cohort study. *Environ Health Perspect* 114(10):1527-1531.
- Zeiger E, Anderson B, Haworth S, et al. 1992. Salmonella mutagenicity tests: V. Results from the testing of 311 chemicals. *Environ Mol Mutagen* 21:2-141.
- Zeilmaker MJ, Bakker MI, Schothorst R, et al. 2010a. Risk assessment of N-nitrosodimethylamine formed endogenously after fish-with-vegetable meals. *Toxicol Sci* 116(1):323-335. <http://toxsci.oxfordjournals.org/content/116/1/323.abstract>. May 20, 2014.
- Zeilmaker MJ, Meulenbelt J, Kortboyer JM, et al. 1996. Safety evaluation of nitrate: Mathematical modeling of nitrite formation in man and its application in the risk assessment of nitrate. Bilthoven, The Netherlands: National Institute of Public Health and the Environment. Report number 235802.002.
- Zeilmaker MJ, Meulenbelt J, Slob W. 2010b. Supplementary Information A2-1. Mathematical model of human nitrate/nitrite kinetics, including the formation of methemoglobin in the blood (Supplement to: *Toxicol Sci* 116(1):323-335). *Toxicol Sci*. <http://toxsci.oxfordjournals.org/content/suppl/2010/03/23/kfq093.DC1/toxsci-09-0763-File002.doc>. April 1, 2014.

9. REFERENCES

- Zeman CL, Kross B, Vlad M. 2002. A nested case-control study of methemoglobinemia risk factors in children of Transylvania, Romania. *Environ Health Perspect* 110(8):817-822.
- Zhang M, Geng S, Smallwood KS. 1998. Assessing groundwater nitrate contamination for resource and landscape management. *Ambio* 27(3):170-174.
- Zhang WL, Tian ZX, Zhang N, et al. 1996. Nitrate pollution of groundwater in northern China. *Agric Ecosyst Environ* 59(3):223-231.
- Zhang XL, Bing Z, Xing Z, et al. 2003. Research and control of well water pollution in high esophageal cancer areas. *World J Gastroenterol* 9(6):1187-1190.
- Zhao HX, Mold MD, Stenhouse EA, et al. 2001. Drinking water composition and childhood-onset type 1 diabetes mellitus in Devon and Cornwall, England. *Diabet Med* 18(9):709-717.
- Zhou L, Anwar MM, Zahid M, et al. 2014. Urinary excretion of N-nitroso compounds in rats fed sodium nitrite and/or hot dogs. *Chem Res Toxicol* 27(10):1669-1674. 10.1021/tx5000188.
- Zhuang H, Chan CK, Fang M, et al. 1999. Size distributions of particulate sulfate, nitrate, and ammonium at a coastal site in Hong Kong. *Atmos Environ* 33(6):843-853.
- Ziegler EE, Edwards BB, Jensen RL, et al. 1978. Absorption and retention of lead by infants. *Pediatr Res* 12(1):29-34.