Wissenschaftliche Literatur über chronisch-toxische Einflüsse von Fluoriden auf die Gesundheit zusammengestellt von Dr. Karlheinz Graf, Präsident der deutschen Gesellschaft für Umwelt- und Humantoxikologie e. V.

(1) Abanto Alvarez J et al., "Dental fluorosis: exposure, prevention and management." Med Oral Patol Oral Cir Bucal. 2009 Feb 1;14(2):E103-7. (Dentalfluorose: Exposition, Prävention und Management)

(2) Alacron-Herrera M.T., Martin-Dominguez I.R., Trejo-Vazques R. Rodriguez Dozal S. Well water fluoride, dental fluorosis, and bone fractures in the Guadiana Valley of Mexico

(3) Albright JA. The effect of fluoride on the mechanical properties of bone. Transact Ann Meeting Orthop Res Soc 1978 ;3:98

(4) Baez RJ, Baez, MX, Marthaler TM. Urinary fluoride excretion by children 4–6 years old in a south Texas community. Revista Panamericana de Salud Pública. Pan Am J Public Health 2000;7(4):242–248

(5) Bronckers A.L.J.J., D.M. Lyaruu, P.K. DenBesten: The Impact of Fluoride on Ameloblasts and the Mechanisms of Enamel Fluorosis; J Dent Res 88(10) 2009, S.877-893

(6) Brevini TA, Zanetto SB, Cillo F.: Effects of endocrine disruptors on developmental and reproductive functions. Curr Drud Targets Immune Endocr Metabol Disord 2005; 5: 1-10

(7) Choi Anna L., Guifan Sun,Ying Zhang, Philippe Grandjean. Developmental Fluoride Neurotoxicity: A Systematic Review and Meta-Analysis. Environmental Health Perspectives vol 120, 10. October 2012

(8) Dong Z et al., "Determination of the contents of amino-acid and monoamine neurotransmitters in fetal brains from a fluorosis-endemic area." Journal of Guiyang Medical College 1993 18(4):241-45. (Bestimmung des Gehaltes der Aminosäure- und Monoamin-Neurotransmitter im Gehirn von einer fetalen Fluorose-endemischen Gebieten.)

(9) Gibson S. Inhibition of the Immunsystem with Low Levels of Fluoride; Testimony before the Scottish High Court in Edinburgh in the Case of McColl vs. Strathclyde Regional Council S. 4106 – 4173, 4228 – 4234, 4249 – 5046, 5127 – 5157, und Exhibit 165 (1981)

(10) Graf J/Graf K: Dentalmedizinische Risiken für neurodegenerative Erkrankungen und deren Prävention in Walach, Loef: Demenz – Prävention und Therapie; KVC-Verlag 2019, ISBN 978-3-945150-99-3 S. 189-204;

(11) Graf J: Hotspot Zahn – Der Einfluss von Zähnen und zahnärztlichen Werkstoffen auf die Gesundheit; Elsevier Verlag München 2022)

(12) Gupta R, Kumar AN, Bandhu S, Gupta S. Skeletal fluorosis mimicking seronegative arthritis. Scand J Rheumatol 2007;36(2):154–5

(13) Hall et al., Fluoride exposure and hypothyroidism in a Canadian pregnancy cohort; Science of the Total Environment 2022; dx.doi.org/10.1016/j.scitotenv.2022.161149

(14) Hanhijarvi, H. "Inorganic plasma fluoride concentrations and its renal excretion in certain physiological and pathological conditions in man." Fluoride 8(4)1975: 198-207 (Anorganische Plasmafluoridkonzentrationen und die renale Ausscheidung in bestimmten physiologischen und pathologischen Bedingungen im Menschen.)

(15) Heller KE(1), Eklund SA, Burt BA. Dental caries and dental fluorosis at varying water fluoride concentrations. J Public Health Dent. 1997 Summer;57(3):136-43

(16) Hellwig E. Kariesprophylaxe mit Fluoriden – eine Standortbestimmung. Hess Zahnärztemag 2003;5

(17) Krishnamachari KA "Skeletal fluorosis in humans: a review of recent progress in the understanding of the disease." Prog Food Nutr Sci. 1986;10(3-4):279-314. (Knochenfluorose beim Menschen: eine Überprüfung der jüngsten Fortschritte im Verständnis der Krankheit.)

(18) Lindemann M.J.: Titanoberflächen und Wechselwirkungen mit Fluoriden: Eine literaturwissenschaftliche Untersuchung zur Wirkung; VDM 2009)

(19) Liu M, Qian C. Effect of endemic fluorosis on children's intelligence development: a Meta analysis. (in Chinese). Zhongguo Dang Dai Er Ke Za Zhi 2008;10(6):723–5

(20) Luke J. Fluoride deposition in the aged human pineal gland. Caries Res. 2001 Mar-Apr;35(2):125-8. PubMed PMID: 11275672. (https://www.ncbi.nlm.nih.gov/pubmed/11275672)

(21) Marthaler TM, Menghini G, Steiner M. Kariesprävalenz und Fluoride. Schweiz Rundschau Med (Praxis) 1989(78):16

(22) Morteza Bashash, Deena Thomas, Howard Hu, E. AngelesMartinez-Mier, Brisa N.Sanchez, Niladri Basu, Karen E.Peterson, Adrienne S.Ettinger, Robert Wright, Zhenzhen Zhang, Yun Liu, Lourdes Schnaas. Prenatal Fluoride Exposureand Cognitive Outcomesin Childrenat 4 and 6–12 Years of Age in Mexico. Environmental HealthPerspectives 097017-1- 097017-12

(23) Pandey A "Prevalence of fluorosis in an endemic village in central India." Trop Doct. 2010 Oct;40(4):217-9. (Die Prävalenz der Fluorose in einem endemischen Dorf in Zentralindien)

(24) Prystupa J., Fluorine - a current literature review. An NRC and ATSDR based review of safety standards for exposure to fluorine and fluorides, Toxicol Mech Methods. 2011 Feb;21(2):103-70. (Fluor - eine aktuelle Literaturübersicht. Eine NRC und ATSDR basierte Überprüfung der Sicherheitsstandards für die Belastung durch Fluor und Fluoride.)

(25) Rice WB, Lu FC, The Effect of Sodium Fluoride on the Actions of Succinylcholine, Parathion and Demeton in Rats, Acta Pharmacol Toxicol (Copenh). 1963;20:39-42. (Die Wirkung von Natriumfluorid auf die Aktionen von Succinylcholin, Parathion und Demeton bei Ratten) (Enzymhemmung)

(26) Schlesinger, Edward R. et al. Newburgh-Kingston caries-fluorine study X III. Pediatric findings after ten years. The Journal of the American Dental Association, Volume 52 , Issue 3 , 296 – 306 (https://jada.ada.org/article/S0002-8177(56)23009-1/pdf)

(27) Tan DX, Xu B, Zhou X, Reiter RJ. Pineal Calcification, Melatonin Production, Aging, Associated Health Consequences and Rejuvenation of the Pineal Gland. Molecules. 2018 Jan 31;23(2). pii: E301. doi: 10.3390/molecules23020301. Review. PubMed PMID: 29385085; PubMed Central PMCID: PMC6017004. (https://www.ncbi.nlm.nih.gov/pubmed/29385085)

(28) Tang QQ, Du J, Ma HH, Jiang SJ, Zhou XJ. Fluoride and children's intelligence: a meta-analysis. Biol Trace Elem Res 2008;126(1–3):115–20

(29) Tao S, Suttie JW, Evidence for a lack of an effect of dietary fluoride level on reproduction in mice, August 1976, Journal of Nutrition,

(30) Tibau AV, Grube BD, Velez BJ, Vega VM, Mutter J. Titanium exposure and human health. Oral Sci Int. 2019;00:1–10

(31) Yamouyiannis J: Früher alt durch Fluoride. Weil der Stadt: Natura Viva Verlag 1988

(32) Yu Y et al., "Neurotransmitter and receptor changes in the brains of fetuses from areas of endemic fluorosis." Chinese Journal of Endemiology 1996 15:257-259. (Neurotransmitter- und Rezeptor-Veränderungen im Gehirn von Föten aus Bereichen der endemische Fluorose)

(33) https://www.zwp-online.info/zwpnews/dental-news/wissenschaft-und-forschung/studie-fluorid-nagt-an-menschlicher-intelligenz

(34) https://www.researchgate.net/publication/236153410_Well_water_fluoride_dental_fluorosis_and_bone_fractures_in_the_Guadiana_Valley_of_Mexico?enrichId=rgreq c525dc06293374c18f378cf723ad1b01-

(35) Wei Y, Zeng B, Zhang H, Chen C, Wu Y, Wang N, et al. Comparative proteomic analysis of fluoride treated rat bone provides new insights into the molecular mechanisms of fluoride toxicity. Toxicol Lett. (2018) 291:39–50. doi: 10.1016/j.toxlet.2018.04.006 (Tox)

(36) Jha, S. K., Mishra, V. K., Sharma, D. K., and Damodaran, T. (2011). Fluoride in the Environment and its Metabolism in Humans. Rev. Environ. Contam. Toxicol. 211, 121–142. doi:10.1007/978-1-4419-8011-3_4 (Tox)

(37) Johnston, N. R., and Strobel, S. A. (2020). Principles of Fluoride Toxicity and the Cellular Response: a Review. Arch. Toxicol. 94 (4), 1051–1069. doi:10.1007/s00204-020-02687-5 (Tox)

(38) Wei, W., Pang, S., and Sun, D. (2019). The Pathogenesis of Endemic Fluorosis: Research Progress in the Last 5 Years. J. Cell. Mol. Medi 23, 2333–2342. doi:10.1111/jcmm.14185 (Tox; endem.Fluorose)

(39) Yu, X., Chen, J., Li, Y., Liu, H., Hou, C., Zeng, Q., et al. (2018). The Pathogenesis of Endemic Fluorosis: Research Progress in the Last 5 Years Environ. Int. 118, 116–124. doi:10.1016/j.envint.2018.05.042 (endem.Fluorose)

(40) Barbier O, Arreola M, Del R. Molecular mechanisms of fluoride toxicity. Chem Biol Interact. (2010) 188:319–33. doi: 10.1016/j.cbi.2010.07.011 (Tox, Immunsystem)

(41) Adamek E, Pawłowska-Góral K, Bober K. In vitro and in vivo effects of fluoride ions on enzyme activity. Ann Acad Med Stetin. (2005) 51:69–85. (Enzymaktiv)

(42) Mingbang Wei, Yourong Ye1, Muhammad Muddassir Ali, Yangzom Chamba, Jia Tang, Peng Shang, Effect of Fluoride on Cytotoxicity Involved in Mitochondrial Dysfunction: A Review of Mechanism, Front. Vet. Sci., 19 April 2022 Sec. Comparative and Clinical Medicine Volume 9 - 2022 | https://doi.org/10.3389/fvets.2022.850771 (CytoTox)

(43) Liang C, Gao Y, He Y, Han Y, Manthari RK, Tikka C, et al. Fluoride induced mitochondrial impairment and PINK1 mediated mitophagy in Leydig cells of mice: in vivo and in vitro studies. Environ Pollut. (2020) 256:113438. doi: 10.1016/j.envpol.2019.113438 (Energie, Immun)

(44) Ma Q, Huang H, Sun L, Zhou T, Zhu J, Cheng X, et al. Gene-environment interaction: does fluoride influence the reproductive hormones in male farmers modified by ERα gene polymorphisms? Chemosphere. (2017) 188:525–31. doi: 10.1016/j.chemosphere.2017.08.166 (Sperm)

(45) Zhao WP, Wang HW, Liu J, Tan PP, Luo XL, Zhu SQ, et al. Positive PCNA and Ki-67 expression in the testis correlates with spermatogenesis dysfunction in fluoride-treated rats. Biol Trace Elem Res. (2018) 186:489–97. doi: 10.1007/s12011-018-1338-6 (Sperm)

(46) Chaithra B, Shivabasavaiah SH. Dose and time-dependent effects of sodium fluoride on sperm motility: an in vitro study. Toxicol Ind Health. (2018) 34:813–8. doi: 10.1177/0748233718795926 (Spermien)

(47) Chaithra B, Shivabasavaiah SH. A comparative analysis of fluoride contaminated groundwater and sodium fluoride induced reproductive toxicity and its reversibility in male rats. Biol Trace Elem Res. (2020) 197:507–21. doi: 10.1007/s12011-019-01994-y (Spermien)

(48) Chengcheng Du, Pengcheng Xiao, Shengqiang Gao, Shengwen Chen, Bowen Chen orgWei Huang, Chen Zhao, High Fluoride Ingestion Impairs Bone Fracture Healing by Attenuating M2 Macrophage Differentiation, ORIGINAL RESEARCH article Front. Bioeng. Biotechnol., 20 May 2022 Sec. Biomaterials Volume 10 - 2022 | https://doi.org/10.3389/fbioe.2022.791433 (schlechte Knochenheilung)

(49) Hillier, S., Cooper, C., Kellingray, S., Russell, G., Hughes, H., and Coggon, D. (2000). Fluoride in Drinking Water and Risk of Hip Fracture in the UK: a Case-Control Study. Lancet 355, 265–269. doi:10.1016/s0140-6736(99)07161-5 (Hüftfrakt)

(50) Li, Y., Liang, C., Slemenda, C. W., Ji, R., Sun, S., Cao, J., et al. (2001). Effect of Long-Term Exposure to Fluoride in Drinking Water on Risks of Bone Fractures. J. Bone Min. Res. 16, 932–939. doi:10.1359/jbmr.2001.16.5.932 (Knochenfrakt)

(51) Philippe G. Developmental fluoride neurotoxicity: An updated review. Environ Health. (2019) 18:110. doi: 10.1186/s12940-019-0551-x (Neurotox)

(52) Sarwar S, Quadri JA, Kumar M, Singh S, Das P, Nag TC, et al. Apoptotic and degenerative changes in the enteric nervous system following exposure to fluoride during pre- and post-natal periods. Biol Trace Elem Res. (2021) 199:1456–68. doi: 10.1007/s12011-020-02249-x (Neurotox)

(53) Kim JW, Byun MS Yi D, Lee JH, Jeon SY, Ko K, et al. Blood hemoglobin, in-vivo alzheimer pathologies, and cognitive impairment: a cross-sectional study. Front Aging Neurosci. (2021) 13:625511. doi: 10.3389/fnagi.2021.625511 (Neurotox, Alzheimer)

(54) Wang M, Liu L, Li H, Li Y, Liu H, Hou C, et al. Thyroid function, intelligence, and low-moderate fluoride exposure among Chinese school-age children. Environ Int. (2020) 134:105229. doi: 10.1016/j.envint.2019.105229 (Intelligenz)

(55) Durch eine Studie im Jahr 2015 aus England, die die Prävalenz von Schilddrüsenunterfunktionen in Bereichen mit und ohne Trinkwasserfluoridierung verglich, hat das Ganze nochmals Auftrieb bekommen:

(56) Peckham S, Lowery D, Spencer S. Are fluoride levels in drinking water associated with hypothyroidism prevalence in England? A large observational study of GP practice data and fluoride levels in drinking water. J Epidemiol Community Health 2015; 69: 619–624.

(57) „Fluoride - Über Risiken und Nebenwirkungen einer systemischen Fluoridierung“ in pädiatrische praxis 101, 276-282 (2024)

(58) Guth S, Hüser S, Roth A et al. (2020) Toxicity of fluoride: Critical evaluation of evidence for human developmental neurotoxicity in epidemiological studies, animal experiments and in vitro analyses. Arch Toxicol 94:1375-1415

(59) Maternal Urinary Fluoride and Child Neurobehavior at Age 36 Months | Public Health | JAMA Network Open | JAMA Network

(60) NTP Working Group Report: Draft State of the Science Monograph and the Draft Meta-Analysis Manuscript on Fluoride; BSC; April 2023 (nih.gov)