

# **Literaturverzeichnis – Vitamin D-Mangel die unterschätzte Gefahr**

2018

Da der Verlag bedauerlicherweise die mit großem Zeitaufwand für das Buch zusammengetragene Literatur in die gedruckte Ausgabe nicht eingefügt hat, werden die Zitate den Lesern hier nach Kapiteln geordnet zur Verfügung gestellt.

## **Kapitel 2: Die Bildung von Vitamin D als Sonnenhormon in unserer Haut und seine Verteilung in unserem Körper**

1. Goldblatt H, Soames KM. The Supplementary Value of Light Rays to a Diet Graded in its Content of Fat-Soluble Organic Factor. *The Biochemical journal* 1923;17(4-5):622–9.
2. Holick MF SHDHSTCR. Isolation and identification of 1,25-dihydroxycholecalciferol. A metabolite of vitamin D active in intestine. *Biochemistry* 1971;10(14):2799–804.
3. de Lawson, Fraser, Kodicek E, Morris HR, Williams DH. Identification of 1,25-dihydroxycholecalciferol, a new kidney hormone controlling calcium metabolism. *Nature* 1971;230(5291):228.230.
4. Brumbaugh PF, Haussler MR. Nuclear and cytoplasmic binding components for vitamin D metabolites. *Life sciences* 1975;16(3):353–62.
5. DeLuca HF, Darwish HM, Ross TK, Moss VE. Mechanism of action of 1,25-dihydroxyvitamin D on target gene expression. *Journal of nutritional science and vitaminology* 1992;19-26.
6. Kauer H. Vitamin D in Immunologie und Onkologie – Eine Literaturstudie. [Dissertation]. München: LMU München; 09.02.2007.
7. Calvo MS, Whiting SJ. Public Health Strategies to Overcome Barriers to Optimal Vitamin D Status in Populations with Special Need. *The Journal of nutrition* 2006;136(4):1135–9.

## **Kapitel 3: Der weltweite Mangel an Sonnenhormon**

1. National Center for Biotechnology Information. PubMed Single Citation Matcher [homepage on the Internet]: U.S. National Library of Medicine; National Institutes of Health; 2008. Internet: <http://www.ncbi.nlm.nih.gov/entrez/query/static/citmatch.html> (updated 09 May 2008; accessed 14 Jul 2008).
2. Hintz Peter B, Mensink GB, Thierfelder W, Müller MJ, Scheidt-Nave C. Vitamin D status and health correlates among German adults. *European journal of clinical nutrition* 2007.
3. Hintz Peter, B et al. Zitat 3: Eigenschaft des Vitamin D im Kindesalter. *Proceedings of the German Nutrition Society* 10 2007;10:47.
4. Hintz Peter B, Scheidt-Nave C, Müller MJ, Schenk L, Mensink GB. Higher prevalence of vitamin D deficiency is associated with immigrant background among children and adolescents in Germany. *J Nutr.* 2008 Aug;138(8):1482-90.
5. Puri S, Marwahaa RK, Agarwala N, et al. Vitamin D status of apparently healthy schoolgirls from two different socioeconomic strata in Delhi: relation to nutrition and lifestyle. *British Journal of Nutrition* 2008;99(4):876–82.

6. Hyppönen E, Power C. Hypovitaminosis D in British adults at age 45 y: nationwide cohort study of dietary and lifestyle predictors. *The American journal of clinical nutrition* 2007;85(3):860–8.
7. Woo J, Lam CW, Leung J, Lau WY, Lau E, Ling X, Xing X, Zhao XH, Skeaff CM, Bacon CJ, Rockell JE, Lambert A, Whiting SJ, Green TJ. Very high rates of vitamin D insufficiency in women of child-bearing age living in Beijing and Hong Kong. *The British Journal of Nutrition* 2008;99(6):1330–4.
8. Islam MZ, Akhtaruzzaman M, Lamberg-Allardt C. Hypovitaminosis D is common in both veiled and nonveiled Bangladeshi women. *Asia Pacific journal of clinical nutrition* 2006;15(1):81–7.
9. Ziegler EE, Hollis BW, Nelson SE, Jeter JM. Vitamin D deficiency in breastfed infants in Iowa. *Pediatrics* 2006;118(2):603–10.
10. Lemberg, Ulrike (2012): Untersuchung zur Epidemiologie und Therapie des Vitamin D-Mangels in Deutschland.
11. Rabenberg, Martina; Scheidt-Nave, Christa; Busch, Markus A.; Rieckmann, Nina; Hintz Peter, Birte; Mensink, Gert B. M. (2015): Vitamin D status among adults in Germany--results from the German Health Interview and Examination Survey for Adults (DEGS1). In: *BMC public health* 15, S. 641. DOI: 10.1186/s12889-015-2016-7.
12. Rabenberger M et al (2016): Vitamin-D-Status von Erwachsenen in Deutschland. In: *Journal of Health Monitoring* 1 (2). DOI: 10.17886/RKI-GBE-2016-036.
13. Bendik, Igor; Friedel, Angelika; Roos, Franz F.; Weber, Peter; Eggersdorfer, Manfred (2014): Vitamin D. A critical and essential micronutrient for human health. In: *Frontiers in physiology* 5, S. 248. DOI: 10.3389/fphys.2014.00248.
14. Gellert, Sandra; Strohle, Alexander; Bitterlich, Norman; Hahn, Andreas (2017): Higher prevalence of vitamin D deficiency in German pregnant women compared to non-pregnant women. In: *Archives of gynecology and obstetrics* 296 (1), S. 43–51. DOI: 10.1007/s00404-017-4398-5.

## **Kapitel 4: Einfluss des Sonnenhormons auf unser Immunsystem**

1. Harder J, Gläser R, Schröder J. Review: Human antimicrobial proteins — effectors of innate immunity. *Journal of Endotoxin Research* 2007;13(6):317–38.
2. Cannell JJ, Vieth R, Umhau JC, Holick MF, Grant WB, Madronich S, Garland CF, Giovannucci E. Epidemic influenza and vitamin D. *Epidemiology and infection* 2006;134(6):1129–40.
3. Laaksi I, Ruohola JP, Tuohimaa P, Auvinen A, Haataja R, Pihlajamäki H, Ylikomi T. An association of serum vitamin D concentrations < 40 nmol/L with acute respiratory tract infection in young Finnish men. *American Journal of Clinical Nutrition* 2007;86(3):714–7.
4. Grant WB, Garland CF. The role of vitamin D3 in preventing infections. *Age and ageing* 2008;37(1):121–2.
5. Elies W, Bestehorn M, Thate-Waschke IM. Häufigkeit und Therapie der Sinusitis. Epidemiologische Studie bei Haus- und HNO-Ärzten in Deutschland. *Chemotherapie Journal* 2007;16(5):167.
6. Chirumbolo, Salvatore; Bjorklund, Geir; Sboarina, Andrea; Vella, Antonio (2017): The Role of Vitamin D in the Immune System as a Pro-survival Molecule. In: *Clinical therapeutics* 39 (5), S. 894–916. DOI: 10.1016/j.clinthera.2017.03.021.

7. Venturini, Elisabetta; Facchini, Ludovica; Martinez-Alier, Nuria; Novelli, Vas; Galli, Luisa; Martino, Maurizio de; Chiappini, Elena (2014): Vitamin D and tuberculosis. A multicenter study in children. In: *BMC infectious diseases* 14, S. 652. DOI: 10.1186/s12879-014-0652-7.
8. Arnedo-Pena, A.; Juan-Cerdan, J. V.; Romeu-Garcia, A.; Garcia-Ferrer, D.; Holguin-Gomez, R.; Iborra-Millet, J. et al. (2015): Vitamin D status and incidence of tuberculosis among contacts of pulmonary tuberculosis patients. In: *The international journal of tuberculosis and lung disease : the official journal of the International Union against Tuberculosis and Lung Disease* 19 (1), S. 65–69. DOI: 10.5588/ijtld.14.0348.
9. Khandelwal, Deepchand; Gupta, Nandita; Mukherjee, Aparna; Lodha, Rakesh; Singh, Varinder; Grewal, Harleen M. S. et al. (2014): Vitamin D levels in Indian children with intrathoracic tuberculosis. In: *The Indian journal of medical research* 140 (4), S. 531–537.
10. Montoya, Dennis; Inkeles, Megan S.; Liu, Phillip T.; Realegeno, Susan; Teles, Rosane M. B.; Vaidya, Poorva et al. (2014): IL-32 is a molecular marker of a host defense network in human tuberculosis. In: *Science translational medicine* 6 (250), 250ra114. DOI: 10.1126/scitranslmed.3009546.
11. Martineau, Adrian R.; Timms, Peter M.; Bothamley, Graham H.; Hanifa, Yasmeen; Islam, Kamrul; Claxton, Alleyna P. et al. (2011): High-dose vitamin D(3) during intensive-phase antimicrobial treatment of pulmonary tuberculosis. A double-blind randomised controlled trial. In: *Lancet (London, England)* 377 (9761), S. 242–250. DOI: 10.1016/S0140-6736(10)61889-2.
12. Villar, Livia Melo; Del Campo, Jose Antonio; Ranchal, Isidora; Lampe, Elisabeth; Romero-Gomez, Manuel (2013): Association between vitamin D and hepatitis C virus infection. A meta-analysis. In: *World journal of gastroenterology* 19 (35), S. 5917–5924. DOI: 10.3748/wjg.v19.i35.5917.
13. Garcia-Alvarez, Monica; Pineda-Tenor, Daniel; Jimenez-Sousa, Maria A.; Fernandez-Rodriguez, Amanda; Guzman-Fulgencio, Maria; Resino, Salvador (2014): Relationship of vitamin D status with advanced liver fibrosis and response to hepatitis C virus therapy. A meta-analysis. In: *Hepatology (Baltimore, Md.)* 60 (5), S. 1541–1550. DOI: 10.1002/hep.27281
14. Cusick, Sarah E.; Opoka, Robert O.; Lund, Troy C.; John, Chandy C.; Polgreen, Lynda E. (2014): Vitamin D insufficiency is common in Ugandan children and is associated with severe malaria. In: *PloS one* 9 (12), e113185. DOI: 10.1371/journal.pone.0113185.
15. Monlezun, Dominique J.; Bittner, Edward A.; Christopher, Kenneth B.; Camargo, Carlos A.; Quraishi, Sadeq A. (2015): Vitamin D status and acute respiratory infection. Cross sectional results from the United States National Health and Nutrition Examination Survey, 2001-2006. In: *Nutrients* 7 (3), S. 1933–1944. DOI: 10.3390/nu7031933.
16. Jolliffe, David A.; Greenberg, Lauren; Hooper, Richard L.; Griffiths, Christopher J.; Camargo, Carlos A., JR; Kerley, Conor P. et al. (2017): Vitamin D supplementation to prevent asthma exacerbations. A systematic review and meta-analysis of individual participant data. In: *The Lancet. Respiratory medicine* 5 (11), S. 881–890. DOI: 10.1016/S2213-2600(17)30306-5.

## Kapitel 5: Bösartige Erkrankungen

1. Robien K, Cutler GJ, Lazovich D. Vitamin D intake and breast cancer risk in postmenopausal women: the Iowa Women's Health Study. *Cancer causes & control : CCC* 2007;18(7):775–82.

2. Lin J, Manson JE, Lee IM, Cook NR, Buring JE, Zhang SM. Intakes of calcium and vitamin D and breast cancer risk in women. *Archives of internal medicine* 2007;167(10):1050–9.
3. Knight JA, Lesosky M, Barnett H, Raboud JM, Voigt R. Vitamin D and Reduced Risk of Breast Cancer: A Population-Based Case-Control Study. *Cancer Epidemiology Biomarkers & Prevention* 2007;16(3):422–9.
4. John EM, Schwartz GG, Koo J, Wang W, Ingles SA. Sun Exposure, Vitamin D Receptor Gene Polymorphisms, and Breast Cancer Risk in a Multiethnic Population. *American Journal of Epidemiology* 2007;166(12):1409–19.
5. Garland CF, Gorham ED, Mohr SB, Grant WB, Giovannucci EL, Lipkin M, Newmark H, Holick MF, Garland FC. Vitamin D and prevention of breast cancer: pooled analysis. *The Journal of steroid biochemistry and molecular biology* 2007;103(3-5):708–11.
6. Abbas S, Linseisen J, Chang-Claude J. Dietary vitamin D and calcium intake and premenopausal breast cancer risk in a German case-control study. *Nutrition and cancer* 2007;59(1):54–61.
7. Goodwin PJ, Ennis M, Pritchard KI, Koo J, Hood N, editors. Frequency of vitamin D (Vit D) deficiency at breast cancer (BC) diagnosis and association with risk of distant recurrence and death in a prospective cohort study of T1-3, N0-1, M0 BC; 2008.
8. Engel, Pierre; Fagherazzi, Guy; Mesrine, Sylvie; Boutron-Ruault, Marie-Christine; Clavel-Chapelon, Francoise (2011): Joint effects of dietary vitamin D and sun exposure on breast cancer risk: results from the French E3N cohort. In: *Cancer epidemiology, biomarkers & prevention : a publication of the American Association for Cancer Research, cosponsored by the American Society of Preventive Oncology* 20 (1), S. 187–198. DOI: 10.1158/1055-9965.EPI-10-1039.
9. Mohr, Sharif B.; Gorham, Edward D.; Kim, June; Hofflich, Heather; Garland, Cedric F. (2014): Meta-analysis of vitamin D sufficiency for improving survival of patients with breast cancer. In: *Anticancer research* 34 (3), S. 1163–1166.
10. LaPorta, Erika; Welsh, JoEllen (2014): Modeling vitamin D actions in triple negative/basal-like breast cancer. In: *The Journal of steroid biochemistry and molecular biology* 144 Pt A, S. 65–73. DOI: 10.1016/j.jsbmb.2013.10.022.
11. Grober, Uwe; Spitz, Jorg; Reichrath, Jorg; Kisters, Klaus; Holick, Michael F. (2013): Vitamin D. Update 2013: From rickets prophylaxis to general preventive healthcare. In: *Dermato-endocrinology* 5 (3), S. 331–347. DOI: 10.4161/derm.26738.
12. Chiba, Akiko; Raman, Rachna; Thomas, Alexandra; Lamy, Pierre-Jean; Viala, Marie; Pouderoux, Stephane et al. (2017): Serum Vitamin D Levels Affect Pathologic Complete Response in Patients Undergoing Neoadjuvant Systemic Therapy for Operable Breast Cancer. In: *Clinical breast cancer*. DOI: 10.1016/j.clbc.2017.12.001.
13. Gorham, Edward D.; Garland, Cedric F.; Garland, Frank C.; Grant, William B.; Mohr, Sharif B.; Lipkin, Martin et al. (2007): Optimal vitamin D status for colorectal cancer prevention: a quantitative meta analysis. In: *American journal of preventive medicine* 32 (3), S. 210–216. DOI: 10.1016/j.amepre.2006.11.004.
14. Wu, Kana; Feskanich, Diane; Fuchs, Charles S.; Willett, Walter C.; Hollis, Bruce W.; Giovannucci, Edward L. (2007): A nested case control study of plasma 25-hydroxyvitamin D concentrations and risk of colorectal cancer. In: *Journal of the National Cancer Institute* 99 (14), S. 1120–1129. DOI: 10.1093/jnci/djm038.
15. Freedman, D. Michal; Looker, Anne C.; Chang, Shih-Chen; Graubard, Barry I. (2007): Prospective study of serum vitamin D and cancer mortality in the United States. In:

Journal of the National Cancer Institute 99 (21), S. 1594–1602. DOI: 10.1093/jnci/djm204.

16. Ng, Kimmie; Meyerhardt, Jeffrey A.; Wu, Kana; Feskanich, Diane; Hollis, Bruce W.; Giovannucci, Edward L.; Fuchs, Charles S. (2008): Circulating 25-hydroxyvitamin d levels and survival in patients with colorectal cancer. In: Journal of clinical oncology : official journal of the American Society of Clinical Oncology 26 (18), S. 2984–2991. DOI: 10.1200/JCO.2007.15.1027.
17. Garland, Cedric F.; Gorham, Edward D.; Mohr, Sharif B.; Garland, Frank C. (2009): Vitamin D for cancer prevention. Global perspective. In: Annals of epidemiology 19 (7), S. 468–483. DOI: 10.1016/j.annepidem.2009.03.021.
18. Lappe, Joan M.; Travers-Gustafson, Dianne; Davies, K. Michael; Recker, Robert R.; Heaney, Robert P. (2007): Vitamin D and calcium supplementation reduces cancer risk: results of a randomized trial. In: The American journal of clinical nutrition 85 (6), S. 1586–1591.
19. Garland, Cedric F.; Gorham, Edward D. (2017): Dose-response of serum 25-hydroxyvitamin D in association with risk of colorectal cancer. A meta-analysis. In: The Journal of steroid biochemistry and molecular biology 168, S. 1–8. DOI: 10.1016/j.jsbmb.2016.12.003.
20. Song, Mingyang; Konijeti, Gauree Gupta; Yuan, Chen; Ananthakrishnan, Ashwin N.; Ogino, Shuji; Fuchs, Charles S. et al. (2016): Plasma 25-Hydroxyvitamin D, Vitamin D Binding Protein, and Risk of Colorectal Cancer in the Nurses' Health Study. In: Cancer prevention research (Philadelphia, Pa.) 9 (8), S. 664–672. DOI: 10.1158/1940-6207.CAPR-16-0053.
21. Atoum, Manar Fayiz; Al-Khatib, Yasmeen Mohammad (2017): Association between Serum 25-hydroxy Vitamin D Concentration and TaqI Vitamin D Receptor Gene Polymorphism among Jordanian Females with Breast Cancer. In: *Chinese medical journal* 130 (9), S. 1074–1078. DOI: 10.4103/0366-6999.204933.
22. Carlberg, Carsten; Haq, Afrozul (2016): The concept of the personal vitamin D response index. In: The Journal of steroid biochemistry and molecular biology. DOI: 10.1016/j.jsbmb.2016.12.011.
23. Finamor, Danilo C.; Sinigaglia-Coimbra, Rita; Neves, Luiz C. M.; Gutierrez, Marcia; Silva, JefersonJ.; Torres, Lucas D. et al. (2013): A pilot study assessing the effect of prolonged administration of high daily doses of vitamin D on the clinical course of vitiligo and psoriasis. In: Dermato-endocrinology 5 (1), S. 222–234. DOI: 10.4161/derm.24808.

## Kapitel 6: Die Bedeutung von Vitamin D bei Zuckererkrankungen

1. Weiland SK, Rapp K, Klenk J, Keil U. Zunahme der Lebenserwartung: Größenordnung, Determinanten und Perspektiven Increase of life expectancy in Germany: magnitude, determinants and perspectives. Deutsches Ärzteblatt 2006; 103(16):A-1072 / B-905 / C-874.
2. Soltesz G, Patterson CC, Dahlquist G, EURODIAB Study Group. Worldwide childhood type 1 diabetes incidence--what can we learn from epidemiology? Pediatric diabetes 2007;8(6):6–14.
3. Giulietti A, Gysemans C, Stoffels K, van Etten E, Decallonne B, Overbergh L, Bouillon R, Mathieu C. Vitamin D deficiency in early life accelerates Type 1 diabetes in non-obese diabetic mice. Diabetologia 2004;47(3):451–62.

4. Hyppönen E, Läärä E, Reunanen A, Järvelin MR, Virtanen SM. Intake of vitamin D and risk of type 1 diabetes: a birth-cohort study. *Lancet* 2001;358(9292):1500–3.
5. Zipitis CS, Akobeng AK. Vitamin D Supplementation in Early Childhood and Risk of Type 1 Diabetes: a Systematic Review and Meta-analysis. *Archives of Disease in Childhood - Fetal and Neonatal Edition* 2008;93(6):512–7.
6. Palomer X, González-Clemente JM, Blanco-Vaca F, Mauricio D. Role of vitamin D in the pathogenesis of type 2 diabetes mellitus. *Diabetes, obesity & metabolism* 2008;10(2):185–97.
7. Alemzadeh R, Kichler J, Babar G, Calhoun M. Hypovitaminosis D in obese children and adolescents: relationship with adiposity, insulin sensitivity, ethnicity, and season. *Metabolism: clinical and experimental* 2008;57(2):183–91.
8. Martins D, Wolf M, Pan D, Zadshir A, Tareen N, Thadhani R, Felsenfeld A, Levine B, Mehrotra R, Norris K. Prevalence of cardiovascular risk factors and the serum levels of 25-hydroxyvitamin D in the United States: data from the Third National Health and Nutrition Examination Survey. *Archives of internal medicine* 2007;167(11):1159–65.
9. Pittas AG, Lau J, Hu FB, Dawson-Hughes B. The role of vitamin D and calcium in type 2 diabetes. A systematic review and meta-analysis. *The Journal of clinical endocrinology and metabolism* 2007;92(6):2017–29.
10. Hintz Peter B, Mensink GB, Thierfelder W, Müller MJ, Scheidt-Nave C. Vitamin D status and health correlates among German adults. *European journal of clinical nutrition* 2007.
11. Sugden JA, Davies JI, Witham MD, Morris AD, Struthers AD. Vitamin D improves endothelial function in patients with Type 2 diabetes mellitus and low vitamin D levels. *Diabetic medicine: a journal of the British Diabetic Association* 2008;25(3):320–5.
12. Hafez, Mona; Hassan, Mona; Musa, Noha; Abdel Atty, Sahar; Azim, Sally Abdel (2017): Vitamin D status in Egyptian children with type 1 diabetes and the role of vitamin D replacement in glycemic control. In: *Journal of pediatric endocrinology & metabolism : JPEM* 30 (4), S. 389–394. DOI: 10.1515/j pem-2016-0292.
13. Verburg, Petra E.; Tucker, Graeme; Scheil, Wendy; Erwich, Jan Jaap H. M.; Dekker, Gus A.; Roberts, Claire T. (2016): Seasonality of gestational diabetes mellitus. A South Australian population study. In: *BMJ open diabetes research & care* 4 (1), e000286. DOI: 10.1136/bmjdrc-2016-000286.
14. Zhang, Y.; Gong, Y.; Xue, H.; Xiong, J.; Cheng, G. (2017): Vitamin D and gestational diabetes mellitus. A systematic review based on data free of Hawthorne effect. In: *BJOG : an international journal of obstetrics and gynaecology*. DOI: 10.1111/1471-0528.15060.
15. Gellert, Sandra; Strohle, Alexander; Bitterlich, Norman; Hahn, Andreas (2017): Higher prevalence of vitamin D deficiency in German pregnant women compared to non-pregnant women. In: *Archives of gynecology and obstetrics* 296 (1), S. 43–51. DOI: 10.1007/s00404-017-4398-5.
16. Mirhosseini, Naghmeh; Vatanparast, Hassanali; Mazidi, Mohsen; Kimball, Samantha M. (2017): The Effect of Improved Serum 25-Hydroxyvitamin D Status on Glycemic Control in Diabetic Patients. A Meta-Analysis. In: *The Journal of clinical endocrinology and metabolism* 102 (9), S. 3097–3110. DOI: 10.1210/jc.2017-01024.
17. McDonnell, S. L.; Baggerly, L. L.; French, C. B.; Heaney, R. P.; Gorham, E. D.; Holick, M. F. et al. (2016): Incidence rate of type 2 diabetes is 50% lower in GrassrootsHealth cohort with median serum 25-hydroxyvitamin D of 41 ng/ml than in NHANES cohort with median of 22 ng/ml. In: *The Journal of steroid biochemistry and molecular biology* 155 (Pt B), S. 239–244. DOI: 10.1016/j.jsbmb.2015.06.013

## Kapitel 7: Erkrankungen des Herzens und der Gefäße

1. Michos ED, Melamed ML. Vitamin D and cardiovascular disease risk. Current opinion in clinical nutrition and metabolic care 2008;11(1):7–12.
2. Gillor A, Groneck P, Kaiser J, Schmitz-Stolbrink A. Congestive heart failure in rickets caused by vitamin D deficiency. Monatsschrift Kinderheilkunde : Organ der Deutschen Gesellschaft für Kinderheilkunde 1989;13(2):108–10.
3. Brunvand L, Hågå P, Tangsrud SE, Haug E. Congestive heart failure caused by vitamin D deficiency? Acta paediatrica (Oslo, Norway : 1992) 1995;84(1):106–8.
4. Wang TJ, Pencina MJ, Booth SL, et al. Vitamin D Deficiency and Risk of Cardiovascular Disease. Circulation 2008;117(4):503–11.
5. Forman JP, Giovannucci E, Holmes MD, Bischoff-Ferrari HA, Tworoger SS, Willett WC, Curhan GC. Plasma 25-Hydroxyvitamin D Levels and Risk of Incident Hypertension. Hypertension 2007;49(5):1063–9.
6. Wang L, Manson JE, Buring JE, Lee IM, Sesso HD. Dietary intake of dairy products, calcium, and vitamin D and the risk of hypertension in middle-aged and older women. Hypertension 2008;51(4):1073–9.
7. Judd SE, Nanes MS, Ziegler TR, Wilson PW, Tangpricha V. Optimal vitamin D status attenuates the age-associated increase in systolic blood pressure in white Americans: results from the third National Health and Nutrition Examination Survey. The American journal of clinical nutrition 2008;87(1):136–41.
8. Pfeifer M, Begerow B, Minne HW, Nachtigall D, Hansen C. Effects of a Short-Term Vitamin D<sub>3</sub> and Calcium Supplementation on Blood Pressure and Parathyroid Hormone Levels in Elderly Women. The Journal of Clinical Endocrinology & Metabolism 2001;86(4):1633–7.
9. Sugden JA, Davies JI, Witham MD, Morris AD, Struthers AD. Vitamin D improves endothelial function in patients with Type 2 diabetes mellitus and low vitamin D levels. Diabetic medicine: a journal of the British Diabetic Association 2008;25(3):320–5.
10. Carlin AM, Rao DS, Yager KM, Genaw JA, Parikh NJ, Szymanski W. Effect of gastric bypass surgery on vitamin D nutritional status. Surgery for obesity and related diseases: official journal of the American Society for Bariatric Surgery 2006;2(6):638–42.
11. Carlin AM, Yager KM, Rao DS. Vitamin D depletion impairs hypertension resolution after Roux-en-Y gastric bypass. American journal of surgery 2008;195(3):349–52.
12. Torre-Amione G. Immune activation in chronic heart failure. The American journal of cardiology 2005;95(11A):3C–8C.
13. Loppnow H, Werdan K, Buerke M. Invited review: Vascular cells contribute to atherosclerosis by cytokine- and innate-immunity-related inflammatory mechanisms. Innate Immunity 2008;14(2):63–87.
14. Barlic J, Murphy PM. Chemokine regulation of atherosclerosis. Journal of leukocyte biology 2007;82(2):226–36.
15. Robertson AK, Hansson GK. T cells in atherogenesis: for better or for worse? Arteriosclerosis, thrombosis, and vascular biology 2006;26(11):2421–32.
16. Li N. Platelet-lymphocyte cross-talk. Journal of leukocyte biology 2008;83(5):1069–78.
17. Melamed ML, Muntner P, Michos ED, Uribarri J, Weber C, Sharma J, Raggi P. Serum 25-hydroxyvitamin D levels and the prevalence of peripheral arterial disease: results from NHANES 2001 to 2004. Arteriosclerosis, thrombosis, and vascular biology 2008;28(6):1179–85.

18. Fahrleitner-Pammer A, Obernosterer A, Pilger E, Dobnig H, Dimai HP, Leb G, Kudlacek S, Obermayer-Pietsch BM. Hypovitaminosis D, impaired bone turnover and low bone mass are common in patients with peripheral arterial disease. *Osteoporosis international: a journal established as result of cooperation between the European Foundation for Osteoporosis and the National Osteoporosis Foundation of the USA* 2005;16(3):319–24.
19. Giovannucci E, Liu Y, Hollis BW, Rimm EB. 25-hydroxyvitamin D and risk of myocardial infarction in men: a prospective study. *Archives of internal medicine* 2008;168(11):1174–80.
20. Dobnig H, Pilz S, Scharnagl H, et al. Independent Association of Low Serum 25-Hydroxyvitamin D and 1,25-Dihydroxyvitamin D Levels With All-Cause and Cardiovascular Mortality. *Archives of internal medicine* 2008;168(12):1340–9.
21. Zittermann A, Fischer J, Schleithoff SS, Tenderich G, Fuchs U, Koerfer R. Patients with congestive heart failure and healthy controls differ in vitamin D-associated lifestyle factors. *International journal for vitamin and nutrition research* 2007;77(4):280–8.
22. Zittermann A, Schleithoff SS, Tenderich G, Berthold HK, Körfer R, Stehle P. Low vitamin D status: a contributing factor in the pathogenesis of congestive heart failure? *Journal of the American College of Cardiology* 2003;41(1):105–12.
23. Zittermann A, Schleithoff SS, Götting C, et al. Poor outcome in end-stage heart failure patients with low circulating calcitriol levels. *European journal of heart failure* 2008;10(3):321–7.
24. Martins D, Wolf M, Pan D, Zadshir A, Tareen N, Thadhani R, Felsenfeld A, Levine B, Mehrotra R, Norris K. Prevalence of cardiovascular risk factors and the serum levels of 25-hydroxyvitamin D in the United States: data from the Third National Health and Nutrition Examination Survey. *Archives of internal medicine* 2007;167(11):1159–65.
25. Hsia J, Heiss G, Ren H, Allison M, Dolan NC, Greenland P, Heckbert SR, Johnson KC, Manson JE, Sidney S, Trevisan M, Women's Health Initiative Investigators. Calcium/vitamin D supplementation and cardiovascular eve. *Circulation* 2007;115(7):846–54.
26. Schleithoff SS, Zittermann A, Tenderich G, Berthold HK, Stehle P, Koerfer R. Vitamin D supplementation improves cytokine profiles in patients with congestive heart failure: a double-blind, randomized, placebo-controlled trial. *American Journal of Clinical Nutrition* 2006;83(5):754–9.
27. Rai, Vikrant; Agrawal, Devendra K. (2017): Role of Vitamin D in Cardiovascular Diseases. In: *Endocrinology and metabolism clinics of North America* 46 (4), S. 1039–1059. DOI: 10.1016/j.ecl.2017.07.009.
28. Censani, Marisa; Hammad, Hoda T.; Christos, Paul J.; Schumaker, Tiffany (2018): Vitamin D Deficiency Associated With Markers of Cardiovascular Disease in Children With Obesity. In: *Global pediatric health* 5, 2333794X17751773. DOI: 10.1177/2333794X17751773.
29. Dziedzic, Ewelina A.; Gasior, Jakub S.; Pawłowski, Mariusz; Dabrowski, Marek (2017): Association of Vitamin D Deficiency and Degree of Coronary Artery Disease in Cardiac Patients with Type 2 Diabetes. In: *Journal of diabetes research* 2017, S. 3929075. DOI: 10.1155/2017/3929075.
30. Skaaby, Tea; Thuesen, Betina H.; Linneberg, Allan (2017): Vitamin D, Cardiovascular Disease and Risk Factors. In: *Advances in experimental medicine and biology* 996, S. 221–230. DOI: 10.1007/978-3-319-56017-5\_18.

31. Al Mheid, Ibhar; Quyyumi, Arshed A. (2017): Vitamin D and Cardiovascular Disease. Controversy Unresolved. In: Journal of the American College of Cardiology 70 (1), S. 89–100. DOI: 10.1016/j.jacc.2017.05.031.
32. Raed, Anas; Bhagatwala, Jigar; Zhu, Haidong; Pollock, Norman K.; Parikh, Samip J.; Huang, Ying et al. (2017): Dose responses of vitamin D3 supplementation on arterial stiffness in overweight African Americans with vitamin D deficiency. A placebo controlled randomized trial. In: PloS one 12 (12), e0188424. DOI: 10.1371/journal.pone.0188424

## Kapitel 8: Sonnenschein für Knochen und Muskeln

1. Nguyen ND, Ahlborg HG, Center JR, Eisman JA, Nguyen TV. Residual Lifetime Risk of Fractures in Women and Men. *Journal of bone and mineral research : the official journal of the American Society for Bone and Mineral Research* 2007;22(6):781–8.
2. Bischoff-Ferrari HA. Fracture epidemiology in the elderly. In: Duque G, Kiel DP, editors. *Osteoporosis in Older Persons. Pathophysiology and therapeutic approach*. London: Springer. p. 97.
3. Bischoff-Ferrari HA, Can U, Staehelin HB, Platz A, Henschkowsky J, Michel BA, Dawson-Hughes B, Theiler R. Severe vitamin D deficiency in Swiss hip fracture patients. *Bone* 2008;42(3):597–602.
4. Magaziner J, Hawkes W, Hebel JR, Zimmerman SI, Fox KM, Dolan M, Felsenfeld G, Kenzora J. Recovery from hip fracture in eight areas of function. *The journals of gerontology. Series A, Biological sciences and medical sciences* 2000;55(9):M498-507.
5. Tinetti ME, Williams CS. Falls, injuries due to falls, and the risk of admission to a nursing home. *The New England journal of medicine* 1997;337(18):1279–84.
6. Cummings SR, Kelsey JL, Nevitt MC, O'Dowd KJ'. Epidemiology of osteoporosis and osteoporotic fractures. *Epidemiologic reviews* 1985;7:178–208.
7. Birge SJ, Morrow-Howell N, Proctor EK. Hip fracture. *Clinics in geriatric medicine* 1994;10(4):589–609.
8. Cummings SR, Rubin SM, Black D. The future of hip fractures in the United States. Numbers, costs, and potential effects of postmenopausal estrogen. *Clinical orthopaedics and related research* 1990;252:163–6.
9. Cummings SR, Nevitt MC, Browner WS, Stone K, Fox KM, Ensrud KE, Cauley J, Black D, Vogt TM. Risk factors for hip fracture in white women. Study of Osteoporotic Fractures Research Group. *The New England journal of medicine* 1995;332(12):767–73.
10. Stevens JA, Ryan G, Kresnow M. Fatalities and Injuries From Falls Among Older Adults—United States, 1993-2003 and 2001-2005. *Morbidity & Mortality Weekly Report* 2006;55(45):1221–4.
11. Tinetti ME, Speechley M, Ginter SF. Risk factors for falls among elderly persons living in the community. *The New England journal of medicine* 1988;319(26):1701–7.
12. Tinetti ME, Williams CS. The effect of falls and fall injuries on functioning in community-dwelling older persons. *The journals of gerontology. Series A, Biological sciences and medical sciences* 1998;53(2):M112-9.
13. Bischoff-Ferrari HA, Dietrich T, Orav EJ, Dawson-Hughes B. Positive association between 25-hydroxy vitamin d levels and bone mineral density: a population-based study of younger and older adults. *The American journal of medicine* 2004;116(9):634–9.

14. Dawson-Hughes B, Harris SS, Krall EA, Dallal GE. Effect of calcium and vitamin D supplementation on bone density in men and women 65 years of age or older. *The New England journal of medicine* 1997;337(10):670–6.
15. Chapuy MC, Arlot ME, Duboeuf F, Brun J, Crouzet B, Arnaud S, Delmas PD, Meunier PJ. Vitamin D<sub>3</sub> and calcium to prevent hip fractures in the elderly women 1992;327(23):1637–42.
16. Trivedi DP, Doll R, Khaw KT. Effect of four monthly oral vitamin D<sub>3</sub> (cholecalciferol) supplementation on fractures and mortality in men and women living in the community: randomised double blind controlled trial. *Bmj* 2003;326(7387):469.
17. Bischoff-Ferrari HA, Willett WC, Wong JB, Giovannucci E, Dietrich T, Dawson-Hughes B. Fracture prevention with vitamin D supplementation: a meta-analysis of randomized controlled trials. *JAMA : The journal of the American Medical Association* 2005;293(18):2257–64.
18. Bischoff-Ferrari HA, Dietrich T, Orav EJ, Hu FB, Zhang Y, Karlson EW, Dawson-Hughes B. Higher 25-hydroxyvitamin D concentrations are associated with better lower-extremity function in both active and inactive persons aged >=60 y. *The American journal of clinical nutrition* 2004;80(2):752–8.
19. Sørensen OH, Lund B, Saltin B, Lund B, Andersen RB, Hjorth L, Melsen F, Mosekilde L. Myopathy in bone loss of ageing: improvement by treatment with 1 alpha-hydroxycholecalciferol and calcium. *Clinical science (London, England : 1979)* 1979;56(2):157–61.
20. Pfeifer M, Begerow B, Minne HW, Abrams C, Nachtigall D, Hansen C. Effects of a short-term vitamin D and calcium supplementation on body sway and secondary hyperparathyroidism in elderly women. *Journal of bone and mineral research : the official journal of the American Society for Bone and Mineral Research* 2000;15(6):1113–8.
21. Bischoff HA, Stähelin HB, Dick W, Akos R, Knecht M, Salis C, Nebiker M, Theiler R, Pfeifer M, Begerow B, Lew RA, Conzelmann M. Effects of vitamin D and calcium supplementation on falls: a randomized controlled trial. *Journal of bone and mineral research : the official journal of the American Society for Bone and Mineral Research* 2003;18(2):343–51.
22. Boland R. Role of vitamin D in skeletal muscle function. *Endocrine reviews* 1986;7(4):434–48.
23. Bischoff-Ferrari HA, Dawson-Hughes B, Willett WC, Staehelin HB, Bazemore MG, Zee RY, Wong JB. Effect of vitamin D on falls: a meta-analysis. *JAMA : The journal of the American Medical Association* 2004;291(16):1999–2006.
24. Graafmans WC, Ooms ME, Hofstee HM, Bezemer PD, Bouter LM, Lips P. Falls in the elderly: a prospective study of risk factors and risk profiles. *American Journal of Epidemiology* 1996;143(11):1129–36.
25. Hirschfeld, H. P.; Kinsella, R.; Duque, G. (2017): Osteosarcopenia. Where bone, muscle, and fat collide. In: *Osteoporosis international : a journal established as result of cooperation between the European Foundation for Osteoporosis and the National Osteoporosis Foundation of the USA* 28 (10), S. 2781–2790. DOI: 10.1007/s00198-017-4151-8.
26. Erlandson, Kristine M.; Guaraldi, Giovanni; Falutz, Julian (2016): More than osteoporosis. Age-specific issues in bone health. In: *Current opinion in HIV and AIDS* 11 (3), S. 343–350. DOI: 10.1097/COH.0000000000000258.

27. Laurent, Michael R.; Dubois, Vanessa; Claessens, Frank; Verschueren, Sabine M. P.; Vanderschueren, Dirk; Gielen, Evelien; Jardi, Ferran (2016): Muscle-bone interactions. From experimental models to the clinic? A critical update. In: Molecular and cellular endocrinology 432, S. 14–36. DOI: 10.1016/j.mce.2015.10.017.
28. Bruyere, Olivier; Cavalier, Etienne; Reginster, Jean-Yves (2017): Vitamin D and osteosarcopenia. An update from epidemiological studies. In: Current opinion in clinical nutrition and metabolic care 20 (6), S. 498–503. DOI: 10.1097/MCO.0000000000000411.
29. Maroon, Joseph C.; Mathyssek, Christina M.; Bost, Jeffrey W.; Amos, Austin; Winkelman, Robert; Yates, Anthony P. et al. (2015): Vitamin D profile in National Football League players. In: The American journal of sports medicine 43 (5), S. 1241–1245. DOI: 10.1177/0363546514567297.
30. Rebolledo, Brian J.; Bernard, Johnathan A.; Werner, Brian C.; Finlay, Andrea K.; Nwachukwu, Benedict U.; Dare, David M. et al. (2017): The Association of Vitamin D Status in Lower Extremity Muscle Strains and Core Muscle Injuries at the National Football League Combine. In: Arthroscopy : the journal of arthroscopic & related surgery : official publication of the Arthroscopy Association of North America and the International Arthroscopy Association. DOI: 10.1016/j.arthro.2017.10.005.
31. Todd, Joshua; Madigan, Sharon; Pourshahidi, Kirsty; McSorley, Emeir; Laird, Eamon; Healy, Martin; Magee, Pamela (2016): Vitamin D Status and Supplementation Practices in Elite Irish Athletes. An Update from 2010/2011. In: Nutrients 8 (8). DOI: 10.3390/nu8080485.
32. Gellert, Sandra; Ströhle, Alexander; Hahn, Andreas (2016): Breastfeeding women are at higher risk of vitamin D deficiency than non-breastfeeding women - insights from the German VitaMinFemin study. In: International breastfeeding journal 12. DOI: 10.1186/s13006-017-0105-1.
33. Abulebda, Kamal; Abu-Sultaneh, Samer; Lutfi, Riad (2017): It is not always child abuse. Multiple fractures due to hypophosphatemic rickets associated with elemental formula use. In: Clinical case reports 5 (8), S. 1348–1351. DOI: 10.1002/ccr3.1052.
34. Cannell, John Jacob; Holick, Michael F. (2018): Multiple unexplained fractures in infants and child physical abuse. In: The Journal of steroid biochemistry and molecular biology 175, S. 18–22. DOI: 10.1016/j.jsbmb.2016.09.012.

## Kapitel 9: Neurologische und psychiatrische Erkrankungen

1. Lieberman HR, Kanarek RB, Prasad C. Nutritional neuroscience. Boca Raton: Taylor & Francis; 2005.
2. Holford P. Optimale Ernährung für die Psyche; Hädecke 2005
3. Nehls, Michael: Die Alzheimer-Lüge : Die Wahrheit über eine vermeidbare Krankheit. München: Heyne, 2014.
4. Perlmutter, David: Brain Maker: The Power of Gut Microbes to Heal and Protect Your Brain for Life. New York: Little, Brown, 2015.
5. Bayol SA, Farrington SJ, Stickland NC. A maternal 'junk food' diet in pregnancy and lactation promotes an exacerbated taste for 'junk food' and a greater propensity for obesity in rat offspring. British Journal of Nutrition 2007;98(4):843–51.
6. Stumpf WE, Privette TH. The steroid hormone of sunlight solatriol (vitamin D) as a seasonal regulator of biological activities and photoperiodic rhythms. The Journal of steroid biochemistry and molecular biology 1991;39(2):283–9.

7. Nataf S, Garcion E, Darcy F, Chabannes D, Muller JY, Brachet P. 1,25-Dihydroxyvitamin D3 exerts regional effects in the central nervous system during experimental allergic encephalomyelitis. *Journal of neuropathology and experimental neurology* 1996;55(8):904-14.
8. Bemiss CJ, Mahon BD, Henry A, Weaver V, Cantorna MT. Interleukin-2 is one of the targets of 1,25-dihydroxyvitamin D3 in the immune system. *Archives of biochemistry and biophysics* 2002;402:249-54.
9. Garcion E, Sindji L, Nataf S, Brachet P, Darcy F, Montero-Menei CN. Treatment of experimental autoimmune encephalomyelitis in rat by 1,25-dihydroxyvitamin D3 leads to early effects within the central nervous system. *Acta neuropathologica* 2003;105(5):438-48.
10. Shinpo K, Kikuchi S, Sasaki H, Moriwaka F, Tashiro K. Effect of 1,25-dihydroxyvitamin D(3) on cultured mesencephalic dopaminergic neurons to the combined toxicity caused by L-buthionine sulfoximine and 1-methyl-4-phenylpyridine. *Journal of Neuroscience Research* 2000;62:374-82.
11. Tetich M, Leśkiewicz M, Budziszewska B, Basta-Kaim A, Kutner A, Lasoń W. The third multidisciplinary conference on drug research, Piła 2002. Effects of 1alpha,25-dihydroxyvitamin D3 and some putative steroid neuroprotective agents on the hydrogen peroxide-induced damage in neuroblastoma-glioma hybrid NG108-15 cells. *Acta poloniae pharmaceutica* 2003;60(5):351-5.
12. Kauer H. Vitamin D in Immunologie und Onkologie – Eine Literaturstudie. [Dissertation]. München: LMU München; 09.02.2007.
13. Westerlind, H., Ramanujam, R., Uvehag, D., Kuja-Halkola, R., Boman, M., Bottai, M., Lichtenstein,
14. Hillert, J., Mar. 2014. Modest familial risks for multiple sclerosis: a registry-based study of the population of sweden. *Brain : a journal of neurology* 137 (Pt 3), 770-778.
15. Acheson ED, Bachrach CA. The distribution of multiple sclerosis in U. S. veterans by birthplace. *American journal of hygiene* 1960;72:88-99.
16. Kurtzke JF. On the fine structure of the distribution of multiple sclerosis. *Acta Neurol Scand. Acta neurologica Scandinavica* 1967;43(3):257-82.
17. Agranoff BW, Goldberg D. Diet and the geographical distribution of multiple sclerosis. *Lancet* 1974;2(7888):1061-6.
18. Munger KL, Levin LI, Hollis BW, Howard NS, Ascherio A. Serum 25-hydroxyvitamin D levels and risk of multiple sclerosis. *JAMA, The Journal of the American Medical Association* 2006;296(23):2832-8.
19. van der Mei IA, Ponsonby AL, Dwyer T, Blizzard L, Taylor BV, Kilpatrick T, Butzkueven H, McMichael AJ. Vitamin D levels in people with multiple sclerosis and community controls in Tasmania, Australia. *Journal of neurology* 2007;254(5):581-90.
20. Kampman M, Wilsgaard T, Mellgren S. Outdoor activities and diet in childhood and adolescence relate to MS risk above the Arctic Circle. *Journal of neurology* 2007;254(4):471-7.
21. Smolders J, Damoiseaux J, Menheere P, Hupperts R. Vitamin D as an immune modulator in multiple sclerosis, a review. *Journal of neuroimmunology* 2008;194(1-2):7-17.
22. Niino M, Fukazawa T, Kikuchi S, Sasaki H. Therapeutic potential of vitamin d for multiple sclerosis. *Current medicinal chemistry* 2008;15(5):499-505.

23. Kimball SM, Ursell MR, O'Connor P, Vieth R. Safety of vitamin D3 in adults with multiple sclerosis. *American Journal of Clinical Nutrition* 2007;86(3):645–51.
24. Smolders, Joost; Moen, Stine Marit; Damoiseaux, Jan; Huitinga, Inge; Holmoy, Trygve (2011): Vitamin D in the healthy and inflamed central nervous system. Access and function. In: *Journal of the neurological sciences* 311 (1-2), S. 37–43. DOI: 10.1016/j.jns.2011.07.033.
25. Pierrot-Deseilligny, Charles; Souberbielle, Jean-Claude (2017): Vitamin D and multiple sclerosis. An update. In: *Multiple sclerosis and related disorders* 14, S. 35–45. DOI: 10.1016/j.msard.2017.03.014.
26. Burton, J. M.; Kimball, S.; Vieth, R.; Bar-Or, A.; Dosch, H-M; Cheung, R. et al. (2010): A phase I/II dose-escalation trial of vitamin D3 and calcium in multiple sclerosis. In: *Neurology* 74 (23), S. 1852–1859. DOI: 10.1212/WNL.0b013e3181e1cec2.
27. Laursen, Julie Hejgaard; Sondergaard, Helle Bach; Sorensen, Per Soelberg; Sellebjerg, Finn; Oturai, Annette Bang (2016): Vitamin D supplementation reduces relapse rate in relapsing-remitting multiple sclerosis patients treated with natalizumab. In: *Multiple sclerosis and related disorders* 10, S. 169–173. DOI: 10.1016/j.msard.2016.10.005.
28. Knippenberg, S.; Damoiseaux, J.; Bol, Y.; Hupperts, R.; Taylor, B. V.; Ponsonby, A-L et al. (2014): Higher levels of reported sun exposure, and not vitamin D status, are associated with less depressive symptoms and fatigue in multiple sclerosis. In: *Acta neurologica Scandinavica* 129 (2), S. 123–131. DOI: 10.1111/ane.12155.
29. McGrath J. Hypothesis: is low prenatal vitamin D a risk-modifying factor for schizophrenia? *Schizophrenia Research* 1999;40(3):173-177(5).
30. McGrath J, Saari K, Hakko H, Jokelainen J, Jones P, Järvelin MR, Chant D, Isohanni M. Vitamin D supplementation during the first year of life and risk of schizophrenia: a Finnish birth cohort study. *Schizophrenia Research* 2004;67(2-3):237–45.
31. O'Loan J, Eyles DW, Kesby J, Ko P, McGrath JJ, Burne TH. Vitamin D deficiency during various stages of pregnancy in the rat; its impact on development and behaviour in adult offspring. *Psychoneuroendocrinology* 2007;32(3):227–34.
32. Cui X, McGrath JJ, Burne TH, Mackay-Sim A, Eyles DW. Maternal vitamin D depletion alters neurogenesis in the developing rat brain. *International journal of developmental neuroscience : the official journal of the International Society for Developmental Neuroscience* 2007;25(4):227–32.
33. Kocovska, Eva; Gaughran, Fiona; Krivoy, Amir; Meier, Ute-Christiane (2017): Vitamin-D Deficiency As a Potential Environmental Risk Factor in Multiple Sclerosis, Schizophrenia, and Autism. In: *Frontiers in psychiatry* 8, S. 47. DOI: 10.3389/fpsyg.2017.00047.
34. Balanza Martinez, Vicent (2017): Nutritional supplements in psychotic disorders. In: *Actas espanolas de psiquiatria* 45 (Supplement), S. 16–25.
35. Rosen L, Knudson KH, Fancher P. Prevalence of seasonal affective disorder among U.S. Army soldiers in Alaska. *Military medicine* 2002;167(7):581–4.
36. Mersch PP, Middendorp HM, Bouhuys AL, Beersma DG, van den Hoofdakker RH. The prevalence of seasonal affective disorder in The Netherlands: a prospective and retrospective study of seasonal mood variation in the general population. *Biological Psychiatry* 1999;45(8):1013–22.
37. Mersch PP, Middendorp HM, Bouhuys AL, Beersma DG, van den Hoofdakker RH. Seasonal affective disorder and latitude: a review of the literature. *Journal of affective disorders* 1999;53(1):35–48.

38. Vieth R, Kimball S, Hu A, Walfish PG. Randomized comparison of the effects of the vitamin D3 adequate intake versus 100 mcg (4000 IU) per day on biochemical responses and the wellbeing of patients. *Nutrition Journal* 2004;3:8.
39. Schneider B, Weber B, Frensch A, Stein J, Fritz J. Vitamin D in schizophrenia, major depression and alcoholism. *Journal of neural transmission (Vienna, Austria : 1996)* 2000;107(7):839–42.
40. Spedding, Simon (2014): Vitamin D and depression. A systematic review and meta-analysis comparing studies with and without biological flaws. In: *Nutrients* 6 (4), S. 1501–1518. DOI: 10.3390/nu6041501.
41. Penckofer, Sue; Byrn, Mary; Adams, William; Emanuele, Mary Ann; Mumby, Patricia; Kouba, Joanne; Wallis, Diane E. (2017): Vitamin D Supplementation Improves Mood in Women with Type 2 Diabetes. In: *Journal of diabetes research* 2017, S. 8232863. DOI: 10.1155/2017/8232863.
42. Littlejohns, Thomas J.; Henley, William E.; Lang, Iain A.; Annweiler, Cedric; Beauchet, Olivier; Chaves, Paulo H. M. et al. (2014): Vitamin D and the risk of dementia and Alzheimer disease. In: *Neurology* 83 (10), S. 920–928. DOI: 10.1212/WNL.0000000000000755.
43. Miller, Joshua W.; Harvey, Danielle J.; Beckett, Laurel A.; Green, Ralph; Farias, Sarah Tomaszewski; Reed, Bruce R. et al. (2015): Vitamin D Status and Rates of Cognitive Decline in a Multiethnic Cohort of Older Adults. In: *JAMA neurology* 72 (11), S. 1295–1303. DOI: 10.1001/jamaneurol.2015.2115.

## Kapitel 10: Sonnenfrust – Hautkrebs

1. Nürnberg B, Schadendorf D, Gärtner B, Pföhler C, Herrmann W, Tilgen W, Reichrath J. Progression of malignant melanoma is associated with reduced 25-hydroxyvitamin D serum levels. *Experimental Dermatology* 2008;17(7):627.
2. Moan J, Porojnicu AC, Dahlback A. Ultraviolet radiation and malignant melanoma. *Advances in experimental medicine and biology* 2008;624:104–16.
3. Sorenson M. S O L A R P O W E R for Optimal Health! Sunlight and vitamin D may save your health and your life! Sorenson M, editor; 2006.
4. Moan J, Dahlback A. The relationship between skin cancers, solar radiation and ozone depletion. *British journal of cancer* 1992;65(6):916–21.
5. Holick MF, Jenkins M. Schützendes Sonnenlicht. Die heilsamen Kräfte der Sonne. Stuttgart: Haug; 2005.
6. Lappe JM, Davies KM, Travers-Gustafson D, Heaney RP. Vitamin D status in a rural postmenopausal female population. *Journal of the American College of Nutrition* 2006;25(5):395–402.
7. Dharmarajan TS, Akula M, Kuppachi S, Norkus EP. Vitamin D deficiency in community older adults with falls of gait imbalance: an under-recognized problem in the inner city. *Journal of nutrition for the elderly* 2005;25(1):7–19.
8. Harris SS. Vitamin D and African Americans. *The Journal of nutrition* 2006;136(4):1126–9.
9. Holick MF, Chen TC. Vitamin D deficiency: a worldwide problem with health consequences. *American Journal of Clinical Nutrition* 2008;87(4):1080S-1086S.
10. Hyppönen E, Power C. Hypovitaminosis D in British adults at age 45 y: nationwide cohort study of dietary and lifestyle predictors. *The American journal of clinical nutrition* 2007;85(3):860–8.

11. Saadi HF, Nagelkerke N, Benedict S, Qazaq HS, Zilahi E, Mohamadiyah MK, Al-Suhaili AI. Predictors and relationships of serum 25 hydroxyvitamin D concentration with bone turnover markers, bone mineral density, and vitamin D receptor genotype in Emirati women. *Bone* 2006;39(5):1136–43.
12. Grant WB, Garland CF, Holick MF. Comparisons of estimated economic burdens due to insufficient solar ultraviolet irradiance and vitamin D and excess solar UV irradiance for the United States. *Photochemistry and Photobiology* 2005;81(6):1276–86.
13. Porojnicu AC, Lagunova Z, Robsahm TE, Berg JP, Dahlback A, Moan J. Changes in risk of death from breast cancer with season and latitude: sun exposure and breast cancer survival in Norway. *Breast cancer research and treatment* 2007;102(3):323–8.
14. Reichrath, Jorg; Saternus, Roman; Vogt, Thomas (2017): Endocrine actions of vitamin D in skin. Relevance for photocarcinogenesis of non-melanoma skin cancer, and beyond. In: *Molecular and cellular endocrinology* 453, S. 96–102. DOI: 10.1016/j.mce.2017.05.001.
15. Lim, Alvin; Shayan, Ramin; Varigos, George (2017): High serum vitamin D level correlates with better prognostic indicators in primary melanoma. A pilot study. In: *The Australasian journal of dermatology*. DOI: 10.1111/ajd.12648.
16. Timerman, Dmitriy; McEnery-Stonelake, Melissa; Joyce, Cara J.; Nambudiri, Vinod E.; Hodi, F. Stephen; Claus, Elizabeth B. et al. (2017): Vitamin D deficiency is associated with a worse prognosis in metastatic melanoma. In: *Oncotarget* 8 (4), S. 6873–6882. DOI: 10.18632/oncotarget.14316.
17. Slominski, Andrzej T.; Brozyna, Anna A.; Zmijewski, Michal A.; Jozwicki, Wojciech; Jetten, Anton M; Mason, Rebecca S. et al. (2017): Vitamin D signaling and melanoma. Role of vitamin D and its receptors in melanoma progression and management. In: *Laboratory investigation; a journal of technical methods and pathology* 97 (6), S. 706–724. DOI: 10.1038/labinvest.2017.3.
18. Paolino, Giovanni; Moliterni, Elisa; Corsetti, Paola; Didona, Dario; Bottini, Ugo; Calvieri, Stefano; Mattozzi, Carlo (2017): Vitamin D and melanoma. State of the art and possible therapeutic uses. In: *Giornale italiano di dermatologia e venereologia : organo ufficiale, Societa italiana di dermatologia e sifilografia*. DOI: 10.23736/S0392-0488.17.05801-1.
19. Smedt, J. de; van Kelst, S.; Boecxstaens, V.; Stas, M.; Bogaerts, K.; Vanderschueren, D. et al. (2017): Vitamin D supplementation in cutaneous malignant melanoma outcome (ViDMe). A randomized controlled trial. In: *BMC Cancer* 17 (1), S. 562. DOI: 10.1186/s12885-017-3538-4.
20. Lindqvist, P. G.; Epstein, E.; Landin-Olsson, M.; Ingvar, C.; Nielsen, K.; Stenbeck, M.; Olsson, H. (2014): Avoidance of sun exposure is a risk factor for all-cause mortality: results from the Melanoma in Southern Sweden cohort. In: *Journal of internal medicine* 276 (1), S. 77–86. DOI: 10.1111/joim.12251.
21. Cauci, Sabina; Maione, Vincenzo; Buligan, Cinzia; Linussio, Martina; Serraino, Diego; Stinco, Giuseppe (2017): BsmI (rs1544410) and FokI (rs2228570) vitamin D receptor polymorphisms, smoking, and body mass index as risk factors of cutaneous malignant melanoma in northeast Italy. In: *Cancer Biology & Medicine* 14 (3), S. 302–318. DOI: 10.20892/j.issn.2095-3941.2017.0064.
22. Burgard, Barbara; Schope, Jakob; Holzschuh, Isabel; Schiekofer, Claudia; Reichrath, Sandra; Stefan, Wagenpfeil et al. (2018): Solarium Use and Risk for Malignant Melanoma. Meta-analysis and Evidence-based Medicine Systematic Review. In: *Anticancer research* 38 (2), S. 1187–1199.

## Kapitel 11: Woher bekomme ich mein Vitamin D?

1. Grant WB, Holick MF. Benefits and requirements of vitamin D for optimal health: a review. *Altern Med Rev.* 2005 Jun;10(2):94-111. Alternative medicine review: a journal of clinical therapeutic 2005;10(2):94–111.
2. Deutsche Gesellschaft für Ernährung (DGE), editor. Referenzwerte für die Nährstoffzufuhr. 1. Aufl., 2., korrigierter Nachdr. Frankfurt am Main: Umschau Braus; 2001.
3. Vieth R, Bischoff-Ferrari H, Boucher BJ, Dawson-Hughes B, Garland CF, Heaney RP, Holick MF, Hollis BW, Lamberg-Allardt C, McGrath JJ, Norman AW, Scragg R, Whiting SJ, Willett WC, Zittermann A. The urgent need to recommend an intake of vitamin D that is effective. *The American journal of clinical nutrition* 2007;85(3):649–50.
4. Reichrath J. The challenge resulting from positive and negative effects of sunlight: How much solar UV exposure is appropriate to balance between risks of vitamin D deficiency and skin cancer? *Progress in Bio-physics and Molecular Biology* 2006;92(1):9–16.
5. Cranney A, Horsley T, O'Donnell S, Weiler H, Puil L, Ooi D, Atkinson S, Ward L, Moher D, Hanley D, Fang M, Yazdi F, Garrity C, Sampson M, Barrowman N, Tservadze A, Mamaladze V. Effectiveness and safe-ty of vitamin D in relation to bone health. *Evidence report/technology assessment* 2007;158:1–235.
6. Hathcock JN, Shao A, Vieth R, Heaney R. Risk assessment for vitamin D. *The American journal of clinical nutrition* 2007;85(1):6–18.
7. Vieth R. Critique of the Considerations for Establishing the Tolerable Upper Intake Level for Vitamin D: Critical Need for Revision Upwards. *The Journal of nutrition* 2006;136(4):1117–22.
8. Heaney RP. Barriers to optimizing vitamin D<sub>3</sub> intake for the elderly. *The Journal of nutrition* 2006;136(4):1123–5.
9. Holick MF, Jenkins M. Schützendes Sonnenlicht. Die heilsamen Kräfte der Sonne. Stuttgart: Haug; 2005.
10. Heaney RP, Davies KM, Chen TC, Holick MF, Barger-Lux MJ. Human serum 25-hydroxycholecalciferol response to extended oral dosing with cholecalciferol. *The American journal of clinical nutrition* 2003;77(1):204–10.
11. Aloia JF, Patel M, Dimaano R, Li-Ng M, Talwar SA, Mikhail M, Pollack S, Yeh JK. Vitamin D intake to attain a desired serum 25-hydroxyvitamin D concentration. *The British Journal of Nutrition* 2008;87(6):1952–8.
12. Kimball, Samantha M.; Ursell, Melanie R.; O'Connor, Paul; Vieth, Reinhold (2007): Safety of vitamin D<sub>3</sub> in adults with multiple sclerosis. In: *The American journal of clinical nutrition* 86 (3), S. 645–651.
13. Hollis, Bruce W.; Wagner, Carol L. (2013): The Role of the Parent Compound Vitamin D with Respect to Metabolism and Function: Why Clinical Dose Intervals Can Affect Clinical Outcomes. In: *The Journal of clinical endocrinology and metabolism* 98 (12), S. 4619–4628. DOI: 10.1210/jc.2013-2653
14. Martineau, Adrian R.; Jolliffe, David A.; Hooper, Richard L.; Greenberg, Lauren; Aloia, John F.; Bergman, Peter et al. (2017): Vitamin D supplementation to prevent acute respiratory tract infections: systematic re-view and meta-analysis of individual participant data. In: *BMJ (Clinical research ed.)* 356, i6583. DOI: 10.1136/bmj.6583.

## Kapitel 12: Vitamin D-Mangel als Teil des Natur-Defizit-Effektes

1. McKeown, T. (1979): The direction of medical research. In: *Lancet (London, England)* 2 (8155), S. 1281–1284.
2. Anand, Sonia S.; Islam, Shofiqul; Rosengren, Annika; Franzosi, Maria Grazia; Steyn, Krisela; Yusufali, Afzal Hussein et al. (2008): Risk factors for myocardial infarction in women and men. Insights from the INTERHEART study. In: *European heart journal* 29 (7), S. 932–940. DOI: 10.1093/eurheartj/ehn018.

## **Kapitel 13: Hochdosis Vitamin D-Therapie im ganzheitlichen Therapie-Konzept bei Auto-Immunerkrankungen - Anmerkungen zum Coimbra-Protokoll**

1. Kimball, Samantha M.; Ursell, Melanie R.; O'Connor, Paul; Vieth, Reinhold (2007): Safety of vitamin D3 in adults with multiple sclerosis. In: *The American journal of clinical nutrition* 86 (3), S. 645–651.
2. Carlberg, Carsten; Haq, Afrozul (2016): The concept of the personal vitamin D response index. In: *The Journal of steroid biochemistry and molecular biology*. DOI: 10.1016/j.jsbmb.2016.12.011.
3. Abdollahzadeh, Rasoul; Fard, Mahsa Sobhani; Rahmani, Farideh; Moloudi, Kaveh; Kalani, Behrooz Sadeghi; Azarnezhad, Asaad (2016): Predisposing role of vitamin D receptor (VDR) polymorphisms in the development of multiple sclerosis. A case-control study. In: *Journal of the neurological sciences* 367, S. 148–151. DOI: 10.1016/j.jns.2016.05.053.
4. McCullough, Patrick; Amend, Jeffrey (2017): Results of daily oral dosing with up to 60,000 international units (iu) of vitamin D3 for 2 to 6 years in 3 adult males. In: *The Journal of steroid biochemistry and molecular biology* 173, S. 308–312. DOI: 10.1016/j.jsbmb.2016.12.009.
5. Burton, J. M.; Kimball, S.; Vieth, R.; Bar-Or, A.; Dosch, H-M; Cheung, R. et al. (2010): A phase I/II dose-escalation trial of vitamin D3 and calcium in multiple sclerosis. In: *Neurology* 74 (23), S. 1852–1859. DOI: 10.1212/WNL.0b013e3181e1cec2.
6. Finamor, Danilo C.; Sinigaglia-Coimbra, Rita; Neves, Luiz C. M.; Gutierrez, Marcia; Silva, Jeferson J.; Torres, Lucas D. et al. (2013): A pilot study assessing the effect of prolonged administration of high daily doses of vitamin D on the clinical course of vitiligo and psoriasis. In: *Dermato-endocrinology* 5 (1), S. 222–234. DOI: 10.4161/derm.24808.

## **Kapitel 14: Vitamin D am Anfang des Lebens**

1. Vouglaris, Nick; Papanastasiou, Labrini; Piaditis, George; Angelousi, Anna; Kaltsas, Gregory; Mastorakos, George; Kassi, Eva (2017): Vitamin D and aspects of female fertility. In: *Hormones (Athens, Greece)* 16 (1), S. 5–21. DOI: 10.14310/horm.2002.1715.
2. Miliku, Kozeta; Vinkhuyzen, Anna; Blanken, Laura Me; McGrath, John J.; Eyles, Darryl W.; Burne, Thomas H. et al. (2016): Maternal vitamin D concentrations during pregnancy, fetal growth patterns, and risks of adverse birth outcomes. In: *The American journal of clinical nutrition* 103 (6), S. 1514–1522. DOI: 10.3945/ajcn.115.123752.
3. Qin, Lu-Lu; Lu, Fang-Guo; Yang, Sheng-Hui; Xu, Hui-Lan; Luo, Bang-An (2016): Does Maternal Vitamin D Deficiency Increase the Risk of Preterm Birth: A Meta-Analysis of Observational Studies. In: *Nutrients* 8 (5). DOI: 10.3390/nu8050301.

4. Cantorna, Margherita T.; Mahon, Brett D. (2004): Mounting evidence for vitamin D as an environmental factor affecting autoimmune disease prevalence. In: Experimental biology and medicine (Maywood, N.J.) 229 (11), S. 1136–1142.
5. Dankers, Wendy; Colin, Edgar M.; van Hamburg, Jan Piet; Lubberts, Erik (2016): Vitamin D in Autoimmunity: Molecular Mechanisms and Therapeutic Potential. In: Frontiers in immunology 7, S. 697. DOI: 10.3389/fimmu.2016.00697.
6. Wagner, C. L.; Baggerly, C.; McDonnell, S.; Baggerly, K. A.; French, C. B.; Baggerly, L. et al. (2016): Post-hoc analysis of vitamin D status and reduced risk of preterm birth in two vitamin D pregnancy cohorts compared with South Carolina March of Dimes 2009-2011 rates. In: The Journal of steroid biochemistry and molecular biology 155 (Pt B), S. 245–251. DOI: 10.1016/j.jsbmb.2015.10.022.
7. Hollis, Bruce W.; Wagner, Carol L. (2013): The Role of the Parent Compound Vitamin D with Respect to Metabolism and Function: Why Clinical Dose Intervals Can Affect Clinical Outcomes. In: The Journal of clinical endocrinology and metabolism 98 (12), S. 4619–4628. DOI: 10.1210/jc.2013-2653.
8. Holick, Michael F.; Binkley, Neil C.; Bischoff-Ferrari, Heike A.; Gordon, Catherine M.; Hanley, David A.; Heaney, Robert P. et al. (2011): Evaluation, treatment, and prevention of vitamin D deficiency: an Endocrine Society clinical practice guideline. In: The Journal of clinical endocrinology and metabolism 96 (7), S. 1911–1930. DOI: 10.1210/jc.2011-0385.
9. Hollis, Bruce W.; Wagner, Carol L.; Howard, Cynthia R.; Ebeling, Myla; Shary, Judy R.; Smith, Pamela G. et al. (2015): Maternal Versus Infant Vitamin D Supplementation During Lactation: A Randomized Controlled Trial. In: Pediatrics 136 (4), S. 625–634. DOI: 10.1542/peds.2015-1669.
10. Wagner, Carol L.; Hulsey, Thomas C.; Fanning, Deanna; Ebeling, Myla; Hollis, Bruce W. (2006): High-dose vitamin D<sub>3</sub> supplementation in a cohort of breastfeeding mothers and their infants: a 6-month follow-up pilot study. In: Breastfeeding medicine : the official journal of the Academy of Breastfeeding Medicine 1 (2), S. 59–70. DOI: 10.1089/bfm.2006.1.59.
11. Gellert, Sandra; Strohle, Alexander; Bitterlich, Norman; Hahn, Andreas (2017): Higher prevalence of vitamin D deficiency in German pregnant women compared to non-pregnant women. In: Archives of gynecology and obstetrics 296 (1), S. 43–51. DOI: 10.1007/s00404-017-4398-5.
12. Abulebda, Kamal; Abu-Sultaneh, Samer; Lutfi, Riad (2017): It is not always child abuse. Multiple fractures due to hypophosphatemic rickets associated with elemental formula use. In: Clinical case reports 5 (8), S. 1348–1351. DOI: 10.1002/ccr3.1052.
13. Cannell, John Jacob; Holick, Michael F. (2018): Multiple unexplained fractures in infants and child physical abuse. In: The Journal of steroid biochemistry and molecular biology 175, S. 18–22. DOI: 10.1016/j.jsbmb.2016.09.012.
14. Wolsk, Helene M.; Harshfield, Benjamin J.; Laranjo, Nancy; Carey, Vincent J.; O'Connor, George; Sandel, Megan et al. (2017): Vitamin D supplementation in pregnancy, prenatal 25(OH)D levels, race, and subsequent asthma or recurrent wheeze in offspring: Secondary analyses from the Vitamin D Antenatal Asthma Reduction Trial. In: The Journal of allergy and clinical immunology. DOI: 10.1016/j.jaci.2017.01.013.