

Documents Cited

AARDA. American Autoimmune Related Disease Association. (2018). Autoimmune Disease List. Available from: <https://www.aarda.org/diseaselist/>

Abdu, T. A., Elhadd, T. A., Neary, R., & Clayton, R. N. (1999). Comparison of the low dose short synacthen test (1 microg), the conventional dose short synacthen test (250 microg), and the insulin tolerance test for assessment of the hypothalamo-pituitary-adrenal axis in patients with pituitary disease. *Journal of Clinical Endocrinology and Metabolism*, 84(3), 838-843.
doi:10.1210/jcem.84.3.5535. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/10084558>

Abraham, J. (2007). Obituaries 204: Jacob Chandy 1910 - 23 June 2007. *The National Medical Journal of India*, 20(4 (July/Aug)). Available from:
https://web.archive.org/web/20080503103429/http://www.nmji.in/archives/Volume_20/Number_4/Obituaries_Jacob.htm

Adams, J. F., Tankel, H. I., & MacEwan, F. (1970). Estimation of the total body vitamin B12 in the live subject. *Clinical Science*, 39(1), 107-113. Available from:
<https://www.ncbi.nlm.nih.gov/pubmed/4915181>; <http://www.clinsci.org/content/39/1/107.long>

Addison, T. (1849). Anaemia: disease of the supra-renal capsules. *London Medical Gazette* 43, 517-518.

Addison, T. (1855). *On the Constitutional and Local Effects of Disease of the Supra-renal Capsule*. London: S. Highley.

Ainsworth, C. (2015). DNA is life's blueprint? No, there's far more to it than that. *New Scientist*, 3025. Available from: <https://www.newscientist.com/article/mg22630251-000-dna-is-lifes-blueprint-no-theres-far-more-to-it-than-that/>

Allen, L. H. (2002). Impact of Vitamin B-12 Deficiency During Lactation on Maternal and Infant Health. In M. K. Davis, C. E. Isaacs, L. Å. Hanson, & A. L. Wright (Eds.), *Integrating Population Outcomes, Biological Mechanisms and Research Methods in the Study of Human Milk and Lactation* (10.1007/978-1-4615-0559-4_6pp. 57-67). Boston, MA: Springer US.

Allen, L. H. (2009). How common is vitamin B-12 deficiency? *American Journal of Clinical Nutrition*, 89(2), 6935-6965. Available from: <http://www.ajcn.org/content/89/2/693S.full>

Alzheimer's Association. (2017). 2017 Alzheimer's Disease Facts and Figures. Available from:
<http://www.alz.org/facts/>

Alzheimer's Society. (2017a). Alzheimer's Disease. Available from:
https://www.alzheimers.org.uk/info/20007/types_of_dementia/2/alzheimers_disease

Alzheimer's Society. (2017b). Facts for the Media. Available from:
https://www.alzheimers.org.uk/info/20027/news_and_media/541/facts_for_the_media

Alzheimer's Society. (2017c). Types of Dementia. Available from:
https://www.alzheimers.org.uk/info/20007/types_of_dementia

Alzheimer Society Canada. (2018, Aug 24). Diabetes and dementia - is there a connection? Available from: <https://alzheimer.ca/en/Home/About-dementia/Alzheimer-s-disease/Risk-factors/Diabetes-dementia-connection>

Amer, M. S., Ali-Labib, R., Farid, T. M., Rasheedy, D., & Tolba, M. F. (2015). Link between vitamin B12, type 2 diabetes mellitus, and bone mineral density in elderly patients. *Journal of Clinical Gerontology & Geriatrics*, 6, 120-124.

American Cancer Society. (2014, 2 Oct 2014). Known and Probable Human Carcinogens. Available from: <https://www.cancer.org/cancer/cancer-causes/general-info/known-and-probable-human-carcinogens.html>

American Society of Hematology. (2011). False normal vitamin B12 levels caused by assay error. *Blood*, 118(3), 492-492. doi:10.1182/blood-2010-11-315564. Available from: <http://www.bloodjournal.org/content/bloodjournal/118/3/492.full.pdf>

American Society of Hematology. (2018). Anemia. Available from: <http://www.hematology.org/Patients/Anemia/>

Ames, B. N. (1979). Identifying environmental chemicals causing mutations and cancer. *Science*, 204(4393), 587-593. doi:10.1126/science.373122. Available from: <http://science.sciencemag.org/content/204/4393/587>

Ames, B. N., Gold, L. S., & Willett, W. C. (1995). The causes and prevention of cancer. *Proceedings of the National Academy of Sciences of the United States of America*, 92(12), 5258-5265. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/7777494>; <http://www.pnas.org/content/pnas/92/12/5258.full.pdf>

Ames, B. N., & Wakimoto, P. (2002). Are vitamin and mineral deficiencies a major cancer risk? *Nature Reviews: Cancer*, 2(9), 694-704. doi:10.1038/nrc886. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/12209158>

Andres, E., Federici, L., Affenberger, S., Vidal-Alaball, J., Loukili, N. H., Zimmer, J., & Kaltenbach, G. (2007). B12 deficiency: a look beyond pernicious anemia. *Journal of Family Practice*, 56(7), 537-542. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/17605945>; https://www.mdedge.com/sites/default/files/Document/September-2017/5607JFP_Article1.pdf

Andrès, E., Loukili, N. H., Noel, E., Kaltenbach, G., Abdelgheni, M. B., Perrin, A. E., Noblet-Dick, M., Maloisel, F., Schlienger, J.-L., & Blicklé, J.-F. (2004). Vitamin B12 (cobalamin) deficiency in elderly patients. *CMAJ: Canadian Medical Association Journal*, 171(3), 251-259. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/15289425>; <http://www.cmaj.ca/content/171/3/251.full.pdf>

Andrès, E., & Serraj, K. (2012). Optimal management of pernicious anemia. *Journal of Blood Medicine*, 3, 97-103. doi:10.2147/JBM.S25620. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/23028239>; <https://www.dovepress.com/getfile.php?fileID=13911>

Arendt, J. F. H., Farkas, D. K., Pedersen, L., Nexo, E., & Sorensen, H. T. (2016). Elevated plasma vitamin B12 levels and cancer prognosis: A population-based cohort study. *Cancer Epidemiology*, 40, 158-165. doi:10.1016/j.canep.2015.12.007. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/26724465>; [http://www.cancerepidemiology.net/article/S1877-7821\(15\)00285-4/pdf](http://www.cancerepidemiology.net/article/S1877-7821(15)00285-4/pdf)

Arlt, W. (2012). Chapter 342 Disorders of the Adrenal Cortex. In D. L. Longo, A. S. Fauci, D. L. Kasper, S. L. Hauser, J. L. Jameson, & J. Loscalzo (Eds.), *Harrison's Principles of Internal Medicine* (18 ed., Vol. 2, pp. 2940-2961). New York: McGraw Hill Medical.

- Arlt, W. (2018). Chapter 379 Disorders of the Adrenal Cortex. In J. L. Jameson, A. S. Fauci, D. L. Kasper, S. L. Hauser, D. L. Longo, & J. Loscalzo (Eds.), *Harrison's Principles of Internal Medicine* (20 ed., Vol. 2, pp. 2719-2739). New York: McGraw Hill Education.
- Arlt, W., & Allolio, B. (2003). Adrenal insufficiency. *Lancet*, 361(9372), 1881-1893. doi:10.1016/S0140-6736(03)13492-7. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/12788587>
- Ashworth, H. (2011, 18 July 2011). How long is your DNA? *Science Focus in BBC Focus Magazine, 2018*. Available from: <http://www.sciencefocus.com/qa/how-long-your-dna>
- Aslinia, F., Mazza, J. J., & Yale, S. H. (2006). Megaloblastic anemia and other causes of macrocytosis. *Clinical Medicine & Research*, 4(3), 236-241. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/16988104>; <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC1570488/pdf/0040236.pdf>
- Babior, B. M., & Bunn, H. F. (2005). Chapter 92 Megaloblastic Anemias. In D. L. Kasper, A. S. Fauci, D. L. Longo, E. Braunwald, S. L. Hauser, & J. L. Jameson (Eds.), *Harrison's Principles of Internal Medicine* (16 ed., Vol. I, pp. 601-607).
- Baldi, M., Behera, D., Kaur, J., Kapoor, R., & Singh, N. (2016). Rationale and Design of PEMVITASTART-An Open-label Randomized Trial Comparing Simultaneous Versus Standard Initiation of Vitamin B12 and Folate Supplementation in Nonsquamous, Non-Small-cell Lung Cancer Patients Undergoing First-line Pemetrexed-based Chemotherapy. *Clinical Lung Cancer*, 10.1016/j.clcc.2016.11.017. doi:10.1016/j.clcc.2016.11.017. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/28073680>; [http://www.clinical-lung-cancer.com/article/S1525-7304\(16\)30371-0/abstract](http://www.clinical-lung-cancer.com/article/S1525-7304(16)30371-0/abstract); [https://www.clinical-lung-cancer.com/article/S1525-7304\(16\)30371-0/fulltext](https://www.clinical-lung-cancer.com/article/S1525-7304(16)30371-0/fulltext)
- Bancos, I., Wass, J., & Arlt, W. (2014). How not to miss - Addison's disease. *Pulse Today, 2014*. Available from: <http://www.pulsetoday.co.uk/clinical/how-not-to-miss-addisons-disease/20007578.article>
- Banerjee, R., & Ragsdale, S. W. (2003). The Many Faces of Vitamin B12: Catalysis by Cobalamin-Dependent Enzymes. *Annual Review of Biochemistry*, 72(1), 209-247. doi:10.1146/annurev.biochem.72.121801.161828. Available from: <https://www.annualreviews.org/doi/abs/10.1146/annurev.biochem.72.121801.161828>
- Barclay, A. W. (1851). Death from anaemia (two cases) (unseen). *Medical Times and Gazette*, 23, 480.
- Bassett, J. K., Baglietto, L., Hodge, A. M., Severi, G., Hopper, J. L., English, D. R., & Giles, G. G. (2013). Dietary intake of B vitamins and methionine and breast cancer risk. *Cancer Causes and Control*, 24(8), 1555-1563. doi:10.1007/s10552-013-0232-y. Available from: <https://www.ncbi.nlm.nih.gov/pubmed?cmd=historysearch&querykey=18>; <http://link.springer.com/article/10.1007%2Fs10552-013-0232-y>; <https://link.springer.com/article/10.1007%2Fs10552-013-0232-y>
- Basu, A. K. (2018). DNA Damage, Mutagenesis and Cancer. *International Journal of Molecular Sciences*, 19(4). doi:10.3390/ijms19040970. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29570697>; https://res.mdpi.com/ijms/ijms-19-00970/article_deploy/ijms-19-00970.pdf?filename=&attachment=1
- Batmanghelidj, F. (2008). *Your Body's Many Cries for Water: You're not sick; you're thirsty Don't treat thirst with medication* (3 ed.): Global Health Solutions, Inc.

- Beech, C. M., Liyanarachchi, S., Shah, N. P., Sturm, A. C., Sadiq, M. F., de la Chapelle, A., & Tanner, S. M. (2011). Ancient founder mutation is responsible for Imerslund-Grasbeck Syndrome among diverse ethnicities. *Orphanet Journal of Rare Diseases*, 6, 74. doi:10.1186/1750-1172-6-74. Available from: <http://www.ojrd.com/content/pdf/1750-1172-6-74.pdf>
- Bender, D. A. (2003). Megaloblastic anaemia in vitamin B12 deficiency. *British Journal of Nutrition*, 89(4), 439-441. doi:10.1079/BJN2002828. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/12654160>
- Bennett, M. (2001). Vitamin B12 deficiency, infertility and recurrent fetal loss. *Journal of Reproductive Medicine*, 46(3), 209-212. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/11304860>
- de Benoist, B. (2008). Conclusions of a WHO Technical Consultation on folate and vitamin B12 deficiencies. *Food and Nutrition Bulletin*, 29(2 Suppl), S238-244. doi:10.1177/15648265080292S129. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/18709899>
- Berger, J. R. (2004). The Neurological Complications of Bariatric Surgery. *Archives of Neurology*, 61(8), 1185-1189. doi:10.1001/archneur.61.8.1185. Available from: <https://jamanetwork.com/journals/jamaneurology/fullarticle/786290>
- Betterle, C., Dal Pra, C., Mantero, F., & Zanchetta, R. (2002). Autoimmune adrenal insufficiency and autoimmune polyendocrine syndromes: autoantibodies, autoantigens, and their applicability in diagnosis and disease prediction. *Endocrine Reviews*, 23(3), 327-364. doi:10.1210/edrv.23.3.0466. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/12050123>
- Bevan, A. (1948). A message to the medical profession from the minister of health. *BMJ*. Available from: <http://www.nhshistory.net/bevanmessage.pdf>
- Biermer, A. (1872). Über eine Form von progressiver perniciöser Anämie. *Correspondenz-Blatt für schweizer Aerzte*, 2, 15-17.
- Bird, J. (2013, Nov). Vitamin B12 and Cancer: The Canary in the Coal Mine? Available from: https://www.dsm.com/campaigns/talkingnutrition/en_US/talkingnutrition-dsm-com/2013/11/vitamin_B12_cobalamin_cancer_risk.html
- Blount, B. C., Mack, M. M., Wehr, C. M., MacGregor, J. T., Hiatt, R. A., Wang, G., Wickramasinghe, S. N., Everson, R. B., & Ames, B. N. (1997). Folate deficiency causes uracil misincorporation into human DNA and chromosome breakage: implications for cancer and neuronal damage. *Proceedings of the National Academy of Sciences of the United States of America*, 94(7), 3290-3295. Available from: http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&doct=Citation&list_uids=9096386; <http://www.ncbi.nlm.nih.gov/picrender.fcgi?artid=20362&blobtype=pdf>
- Blundo, C., Marin, D., & Ricci, M. (2011). Vitamin B12 deficiency associated with symptoms of frontotemporal dementia. *Neurological sciences : official journal of the Italian Neurological Society and of the Italian Society of Clinical Neurophysiology*, 32(1), 101-105. doi:10.1007/s10072-010-0419-x. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/20927562>
- BMJ Best Practice. (2018a). Addison's disease: Investigations. Available from: <https://bestpractice.bmjjournals.com/topics/en-gb/56/investigations>

- BMJ Best Practice. (2018b). Adrenal suppression: Investigations. Available from:
<https://bestpractice.bmj.com/topics/en-gb/863/investigations#referencePop56>
- BMJ Best Practice. (2018c, Apr 2018). Evaluation of Anemia. Available from:
<https://bestpractice.bmj.com/topics/en-us/93>
- BMJ Best Practice. (2018d, 22 June 2018). Vitamin B12 deficiency. Available from:
bestpractice.bmj.com/best-practice/monograph/822/highlights/summary.html
- BMJ Best Practice. (2018e, March 2018). Wernicke's encephalopathy. *BMJ Best Practice*. Available from:
<https://bestpractice.bmj.com/topics/en-gb/405?q=Wernicke's%20encephalopathy&c=suggested>
- BNF. British National Formulary. (2009). *British National Formulary*. London, UK: British Medical Association & Royal Pharmaceutical Society of Great Britain.
- BNF. British National Formulary. (2017, 20 July 2017). Cyanocobalamin. *British National Formulary*. Available from: <https://www.medicinescomplete.com/#/content/bnf/ 872171900>
- BNF. British National Formulary. (2018, 14 Aug 2018). Anaemia, Megaloblastic. *British National Formulary*. Available from:
<https://www.medicinescomplete.com/#/content/bnf/ 286183421?hspl=B12>
- BNF. (2019). Anaemia, megaloblastic. *BNF*. Available from: <https://bnf.nice.org.uk/treatment-summary/anaemia-megaloblastic.html>
- BNFC. British National Formulary for Children. (2008). *British National Formulary for Children*. London, UK: British Medical Association, Royal Pharmaceutical Society, the Royal College of Paediatrics and Child Health, and the Neonatal and Paediatric Pharmacists Group.
- Bolon, B. (2012). Cellular and molecular mechanisms of autoimmune disease. *Toxicologic Pathology*, 40(2), 216-229. doi:10.1177/0192623311428481. Available from:
<https://www.ncbi.nlm.nih.gov/pubmed/22105648>
- Bor, M. V., von Castel-Roberts, K. M., Kauwell, G. P., Stabler, S. P., Allen, R. H., Maneval, D. R., Bailey, L. B., & Nexo, E. (2010). Daily intake of 4 to 7 microg dietary vitamin B-12 is associated with steady concentrations of vitamin B-12-related biomarkers in a healthy young population. *The American Journal of Clinical Nutrition*, 91(3), 571-577. Available from:
<https://www.ncbi.nlm.nih.gov/pubmed/20071646>
- Bottiglieri, T. (2002). S-Adenosyl-L-methionine (SAMe): from the bench to the bedside—molecular basis of a pleiotrophic molecule. *The American Journal of Clinical Nutrition*, 76(5), 1151S-1157S. doi:10.1093/ajcn/76.5.1151S %J The American Journal of Clinical Nutrition. Available from:
<https://dx.doi.org/10.1093/ajcn/76.5.1151S>
- Bottiglieri, T., Laundy, M., Crellin, R., Toone, B. K., Carney, M. W., & Reynolds, E. H. (2000). Homocysteine, folate, methylation, and monoamine metabolism in depression. *Journal of Neurology, Neurosurgery and Psychiatry*, 69(2), 228-232. Available from:
<https://www.ncbi.nlm.nih.gov/pubmed/10896698>;
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC1737050/pdf/v069p00228.pdf>
- Boucher, J. L. (2017). The cause of multiple sclerosis is autoimmune attack of adenosyltransferase thereby limiting adenosylcobalamin production. *Medical Hypotheses*, 109, 29-37. doi:10.1016/j.mehy.2017.08.011. Available from:
<http://www.sciencedirect.com/science/article/pii/S030698771730275X>

- Bozian, R. C., Ferguson, J. L., Heyssel, R. M., Meneely, G. R., & Darby, W. J. (1963). Evidence concerning the human requirement for vitamin B12. Use of the whole body counter for determination of absorption of vitamin B12. *American Journal of Clinical Nutrition*, 12, 117-129.
doi:10.1093/ajcn/12.2.117. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/14014759>; <https://academic.oup.com/ajcn/article-abstract/12/2/117/4729025?redirectedFrom=fulltext>
- Briani, C., Dalla Torre, C., Citton, V., Manara, R., Pompanin, S., Binotto, G., & Adami, F. (2013). Cobalamin deficiency: clinical picture and radiological findings. *Nutrients*, 5(11), 4521-4539.
doi:10.3390/nu5114521. Available from:
<https://res.mdpi.com/def502002b51661fbfb06fec92bdfcab52fde6b130127929a61f0e29ad4bf9559e87fe83e07550bdf223bcb1ce3b6dbb466ccf69064bbaa1fbbd325f33172a1a30a7d7a4b608f2e0d45b10a56b7c4731804628521ebda018590ab9de7a5e5fee80aeeec632813d9fa11a17f8577a6ba33e74347ac7ccdfa64c54af3c72307b1cc1c0a8d47bca5016ace102ea13b1821c3d69d5e229ef3?filename=&attachment=1>
- Brown, H. E., & Roffman, J. L. (2014). Vitamin Supplementation in the Treatment of Schizophrenia. *CNS drugs*, 28(7), 611-622. doi:10.1007/s40263-014-0172-4. Available from:
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4083629/>;
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4083629/pdf/nihms-597561.pdf>
- Cabot, R. C. (1910). Pernicious and secondary anaemia, chlorosis, and leukemia (unseen). In W. Osler & T. McGrae (Eds.), *A System of Medicine*. Oxford: Frowde.
- Cancer Research UK. (2017, 15 Nov). Chemotherapy. *General cancer information: Treatment for cancer*. Available from: <https://www.cancerresearchuk.org/about-cancer/cancer-in-general/treatment/chemotherapy>
- Cancer Research UK. (2018, 14 Dec). Radiotherapy. *General cancer information: Treatment for cancer*. Available from: <https://www.cancerresearchuk.org/about-cancer/cancer-in-general/treatment/radiotherapy>
- Cancer.Net. (2018, Mar 2018). The Genetics of Cancer. Available from:
<https://www.cancer.net/navigating-cancer-care/cancer-basics/genetics/genetics-cancer>
- Carmel, R. (2008). How I treat cobalamin (vitamin B12) deficiency. *Blood*, 112(6), 2214-2221.
doi:10.1182/blood-2008-03-040253. Available from:
<https://www.ncbi.nlm.nih.gov/pubmed/18606874>;
<http://www.bloodjournal.org/content/bloodjournal/112/6/2214.full.pdf>
- Carmel, R. (2011). Biomarkers of cobalamin (vitamin B-12) status in the epidemiologic setting: a critical overview of context, applications, and performance characteristics of cobalamin, methylmalonic acid, and holotranscobalamin II. *American Journal of Clinical Nutrition*, 94(1), 348S-358S.
doi:10.3945/ajcn.111.013441. Available from:
<https://www.ncbi.nlm.nih.gov/pubmed/21593511>;
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3174853/pdf/ajcn9410348S.pdf>
- Carmel, R., & Agrawal, Y. P. (2012). Failures of Cobalamin Assays in Pernicious Anemia. *New England Journal of Medicine*, 367(4), 385-386. Available from: <http://home.kpn.nl/koudum-2/B12/NEJM-2012.pdf>
- Carmel, R., Brar, S., Agrawal, A., & Penha, P. D. (2000). Failure of Assay to Identify Low Cobalamin Concentrations. *Clinical Chemistry*, 46(12), 2017-2018. Available from:
<http://clinchem.aaccjnl.org/content/clinchem/46/12/2017.full.pdf>

Carmel, R., Green, R., Jacobsen, D. W., & Qian, G. D. (1996). Neutrophil nuclear segmentation in mild cobalamin deficiency: relation to metabolic tests of cobalamin status and observations on ethnic differences in neutrophil segmentation. *American Journal of Clinical Pathology*, 106(1), 57-63. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/8701933>

Carrazana, E. (2002). The neurological manifestations of vitamin B12 deficiency. In V. Herbert (Ed.), *Vitamin B12 deficiency, Proceedings of a Round Table Discussion, Florida* (pp. 21-26). Key West, Florida: Royal Society of Medicine Press.

Casella, E. B., Valente, M., de Navarro, J. M., & Kok, F. (2005). Vitamin B12 deficiency in infancy as a cause of developmental regression. *Brain and Development*, 27(8), 592-594. doi:10.1016/j.braindev.2005.02.005. Available from: <http://www.sciencedirect.com/science/article/pii/S0387760405000458>; [https://www.brainanddevelopment.com/article/S0387-7604\(05\)00045-8/fulltext](https://www.brainanddevelopment.com/article/S0387-7604(05)00045-8/fulltext)

Chanarin, I. (1969). *The Megaloblastic Anaemias*. Oxford: Blackwell Scientific.

Chanarin, I. (1979). *The Megaloblastic Anaemias* (2nd ed.). Oxford: Blackwell Scientific.

Chanarin, I. (1980). *Blood and its diseases* (2nd ed.). Edinburgh; New York: Churchill Livingstone.

Chanarin, I. (1982). Disorders of vitamin absorption. *Clinics in Gastroenterology*, 11(1), 73-85.

Chanarin, I. (1990). *The Megaloblastic Anaemias* (3rd ed.). Oxford: Blackwell Scientific.

Chanarin, I. (2000). Historical review: a history of pernicious anaemia. *British Journal of Haematology*, 111(2), 407-415. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/11122079>; <https://onlinelibrary.wiley.com/doi/10.1111/j.1365-2141.2000.02238.x>

Chandy, J. K. (2006a). *A forgotten illness - Vitamin B12 Deficiency with Neuro Psychiatric signs and symptoms with or without Anaemia or Macrocytosis (Paper presented at University Hospital of North Durham Consultants and GPs postgraduate meeting)*.

Chandy, J. K. (2006b). *Vitamin B12 deficiency with neuro-psychiatric symptoms, serum B12 level below 300ng/L with or without anaemia or macrocytosis (Paper presented at University Hospital of Hartlepool Consultants and GPs postgraduate meeting)*.

Chandy, J. K. (2015, 24 April 2015). *B12 deficiency and APS with a causal link to hypothyroidism, adrenal insufficiency*. Paper presented at the Thyroid Patient Advocacy Conference, Crown Hotel, Harrogate, North Yorkshire, UK. Available from: <http://www.tpauk.com/main/article/tpa-conference-friday-24-april-2015-crown-hotel-harrogate/>

Chandy, J. K., & Minney, H. (2014). *Vitamin B12 deficiency, a common but forgotten illness*. Paper presented at the International Forum on Quality and Safety in Healthcare, Palais des Congrès, Paris, France.

Charcot, J. (1868). Histologie de la sclérose en plaques. *Gazette des Hopitaux, Paris*, 41, 554-555.

Charmandari, E., Nicolaides, N. C., & Chrousos, G. P. (2014). Adrenal insufficiency. *Lancet*, 383(9935), 2152-2167. doi:10.1016/S0140-6736(13)61684-0. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/24503135>; [https://www.thelancet.com/journals/lancet/article/PIIS0140-6736\(13\)61684-0/fulltext](https://www.thelancet.com/journals/lancet/article/PIIS0140-6736(13)61684-0/fulltext)

- Choi, S.-W., Friso, S., Ghandour, H., Bagley, P. J., Selhub, J., & Mason, J. B. (2004). Vitamin B-12 deficiency induces anomalies of base substitution and methylation in the DNA of rat colonic epithelium. *Journal of Nutrition*, 134(4), 750-755. doi:10.1093/jn/134.4.750. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/15051821>
- Choi, S. W., & Friso, S. (2010). Epigenetics: A New Bridge between Nutrition and Health. *Advances in Nutrition*, 1(1), 8-16. doi:10.3945/an.110.1004. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/22043447>; <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3042783/pdf/8.pdf>
- Christine, C. W., Auinger, P., Joslin, A., Yelpaala, Y., & Green, R. on behalf of the Parkinson Study Group-DATATOP Investigators. (2018). Vitamin B12 and Homocysteine Levels Predict Different Outcomes in Early Parkinson's Disease. *Movement Disorders*, 33(5), 762-770. doi:10.1002/mds.27301. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29508904>; <https://onlinelibrary.wiley.com/doi/pdf/10.1002/mds.27301>
- Chui, C. H., Lau, F. Y., Wong, R., Soo, O. Y., Lam, C. K., Lee, P. W., Leung, H. K., So, C. K., Tsoi, W. C., Tang, N., Lam, W. K., & Cheng, G. (2001). Vitamin B12 deficiency--need for a new guideline. *Nutrition*, 17(11-12), 917-920. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/11744340>
- Clarke, R., Birks, J., Nexo, E., Ueland, P. M., Schneede, J., Scott, J., Molloy, A., & Evans, J. G. (2007). Low vitamin B-12 status and risk of cognitive decline in older adults. *American Journal of Clinical Nutrition*, 86(5), 1384-1391. doi:10.1093/ajcn/86.5.1384. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/17991650>
- Clarke, R., Grimley Evans, J., Schneede, J., Nexo, E., Bates, C., Fletcher, A., Prentice, A., Johnston, C., Ueland, P. M., Refsum, H., Sherliker, P., Birks, J., Whitlock, G., Breeze, E., & Scott, J. M. (2004). Vitamin B12 and folate deficiency in later life. *Age and Ageing*, 33(1), 34-41. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/14695861>
- Clemens, T. L. (2014). Vitamin B12 deficiency and bone health. *New England Journal of Medicine*, 371(10), 963-964. doi:10.1056/NEJMcibr1407247. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/25184870>; https://www.nejm.org/doi/full/10.1056/NEJMcibr1407247?url_ver=Z39.88-2003&rfr_id=ori%3Arid%3Acrossref.org&rfr_dat=cr_pub%3Dpubmed
- Coghlan, A. (2017). Autoimmune disorders linked to an increased risk of dementia. *New Scientist*, 1 March 2017. Available from: <https://www.newscientist.com/article/2123274-autoimmune-disorders-linked-to-an-increased-risk-of-dementia/>
- Cohn, E. J., & Surgenor, D. M. (1949). The state in nature of the active principle in pernicious anemia of catalase, and of other components of liver. *Science*, 109(2835), 443. Available from: http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&doct=Citation&list_uids=18224965
- Collin, S. M. (2013). Folate and B12 in prostate cancer. *Advances in Clinical Chemistry*, 60, 1-63. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/23724740>
- Colombo, B., Franzini, P., & Mannucci, B. (1955). [Biliary, intestinal and urinary excretion of bile pigments; considerations in relation to entero-hepatic circulation.]. *Ospedale Maggiore*, 43(7), 307-312. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/13289099>

- Combe, J. S. (1824). History of a case of anaemia. *Transactions of the Medico-Chirurgical Society of Edinburgh*, 1, 193-204. Available from:
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5405303>
- Cornish, S., & Mehl-Madrona, L. (2008). The role of vitamins and minerals in psychiatry. *Integrative Medicine Insights*, 3, 33-42. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/21614157>; <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3046018/pdf/imj-2008-033.pdf>
- Cree, B. A. C., & Hauser, S. L. (2018). Chapter 436. Multiple Sclerosis. In J. L. Jameson, A. S. Fauci, D. L. Kasper, S. L. Hauser, D. L. Longo, & J. Loscalzo (Eds.), *Harrison's Principles of Internal Medicine* (20 ed., Vol. 2, pp. 3188-3201). New York: McGraw Hill Education.
- Datapharm. (2017). Synacthen Ampoules 250 micrograms per ml - Summary of Product Characteristics. In Datapharm (Ed.): electronic Medicines Compendium (eMC). Available from:
<https://www.medicines.org.uk/emc/product/1751/smpc>
- Dawber, R. P. (1970). Clinical associations of vitiligo. *Postgraduate Medical Journal*, 46(535), 276-277. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/5448375>; <https://pmj.bmjjournals.com/content/postgradmedj/46/535/276.full.pdf>
- Dawson, E. B., Evans, D. R., & Van_Hook, J. W. (1998). Amniotic Fluid B12 and Folate Levels Associated with Neural Tube Defects. *American Journal of Perinatology*, 15(9), 511-514. doi:10.1055/s-2007-993975. Available from: <https://www.thieme-connect.com/products/ejournals/abstract/10.1055/s-2007-993975>; <https://www.thieme-connect.com/DOI/DOI?10.1055/s-2007-993975>
- Debono, M., Ghobadi, C., Rostami-Hodjegan, A., Huatan, H., Campbell, M. J., Newell-Price, J., Darzy, K., Merke, D. P., Arlt, W., & Ross, R. J. (2009). Modified-release hydrocortisone to provide circadian cortisol profiles. *The Journal of clinical endocrinology and metabolism*, 94(5), 1548-1554. doi:10.1210/jc.2008-2380. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/19223520>; <https://www.ncbi.nlm.nih.gov/pmc/PMC2684472/>
- Denson, R. (1976). Letter: Vitamin B12 in late-onset psychosis of childhood. *Canadian Medical Association Journal*, 114(2), 113. Available from:
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC1956802/pdf/canmedaj01550-0029a.pdf>
- Devalia, V. (2006). Diagnosing vitamin B-12 deficiency on the basis of serum B-12 assay. *BMJ*, 333(7564), 385-386. doi:10.1136/bmj.333.7564.385. Available from:
<http://www.bmjjournals.org/cgi/content/full/333/7564/385>; ;
<http://www.bmjjournals.org/cgi/content/extract/333/7564/385>;
<https://www.ncbi.nlm.nih.gov/pubmed/16916826>;
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC1550477/pdf/bmj33300385.pdf>
- Devalia, V., Hamilton, M. S., & Molloy, Anne M. on behalf of the British Committee for Standards in Haematology. (2014). Guidelines for the diagnosis and treatment of cobalamin and folate disorders. *British Journal of Haematology*, 166(4), 496-513. doi:10.1111/bjh.12959. Available from: <http://dx.doi.org/10.1111/bjh.12959>
- Dhillon, W. S., Kong, W. M., Le Roux, C. W., Alaghband-Zadeh, J., Jones, J., Carter, G., Mendoza, N., Meeran, K., & O'Shea, D. (2002). Cortisol-binding globulin is important in the interpretation of dynamic tests of the hypothalamic--pituitary--adrenal axis. *European Journal of Endocrinology of the European Federation of Endocrine Societies*, 146(2), 231-235. Available from:
<https://www.ncbi.nlm.nih.gov/pubmed/11834433>

Diabetes.co.uk. (2018). What is an autoimmune disease? Available from:

<https://www.diabetes.co.uk/autoimmune-diseases.html>

Doets, E. L., Cavelaars, A. E., Dhonukshe-Rutten, R. A., van 't Veer, P., & de Groot, L. C. (2012). Explaining the variability in recommended intakes of folate, vitamin B12, iron and zinc for adults and elderly people. *Public Health Nutrition*, 15(5), 906-915. doi:10.1017/S1368980011002643. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/22035597>; <https://www.cambridge.org/core/services/aop-cambridge-core/content/view/B6A69932BEEAD4ECD260893D34E3248B/S1368980011002643a.pdf/div-class-title-explaining-the-variability-in-recommended-intakes-of-folate-vitamin-b-span-class-sub-12-span-iron-and-zinc-for-adults-and-elderly-people-div.pdf>

Doets, E. L., In 't Veld, P. H., Szczebinska, A., Dhonukshe-Rutten, R. A. M., Cavelaars, A. E. J. M., van 't Veer, P., Brzozowska, A., & de Groot, L. C. P. G. M. (2013). Systematic review on daily vitamin B12 losses and bioavailability for deriving recommendations on vitamin B12 intake with the factorial approach. *Annals of Nutrition and Metabolism*, 62(4), 311-322. doi:10.1159/000346968. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/23796635>; <https://www.karger.com/Article/Pdf/346968>

Dogan, Ozdemir, Sal, Cesur, & Caksen. (2009). Psychotic Disorder and Extrapyramidal Symptoms Associated with Vitamin B12 and Folate Deficiency. *Journal of Tropical Pediatrics*, 55(3), 205. Available from: <https://academic.oup.com/tropej/article/55/3/205/1658519>

Donaldson, M. S. (2004). Nutrition and cancer: a review of the evidence for an anti-cancer diet. *Nutrition Journal*, 3, 19. doi:10.1186/1475-2891-3-19. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/15496224>; <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC526387/pdf/1475-2891-3-19.pdf>

Douaud, G., Refsum, H., de Jager, C. A., Jacoby, R., Nichols, T. E., Smith, S. M., & Smith, A. D. (2013). Preventing Alzheimer's disease-related gray matter atrophy by B-vitamin treatment. *Proceedings of the National Academy of Sciences of the United States of America*, 110(23), 9523-9528. doi:10.1073/pnas.1301816110. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/23690582>; <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3677457/pdf/pnas.201301816.pdf>

Dowling, D. P., Miles, Z. D., Köhrer, C., Maiocco, S. J., Elliott, S. J., Bandarian, V., & Drennan, C. L. (2016). Molecular basis of cobalamin-dependent RNA modification. *Nucleic Acids Research*, 44(20), 9965-9976. doi:10.1093/nar/gkw806. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/27638883>; <https://www.ncbi.nlm.nih.gov/pmc/PMC5175355/>

Duggan, C., Srinivasan, K., Thomas, T., Samuel, T., Rajendran, R., Muthayya, S., Finkelstein, J. L., Lukose, A., Fawzi, W., Allen, L. H., Bosch, R. J., & Kurpad, A. V. (2014). Vitamin B-12 supplementation during pregnancy and early lactation increases maternal, breast milk, and infant measures of vitamin B-12 status. *Journal of Nutrition*, 144(5), 758-764. doi:10.3945/jn.113.187278. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/24598885>; <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3985831/pdf/nut144758.pdf>

Ebbing, M., Bønaa, K. H., Nygård, O., Arnesen, E., Ueland, P. M., Nordrehaug, J. E., Rasmussen, K., Njølstad, I., Refsum, H., Nilsen, D. W., Tverdal, A., Meyer, K., & Vollset, S. E. (2009). Cancer Incidence and Mortality After Treatment With Folic Acid and Vitamin B12. *JAMA*, 302(19), 2119-2126. doi:10.1001/jama.2009.1622. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/19920236>

http://jama.jamanetwork.com/pdfaccess.ashx?url=/data/journals/jama/4488/joc90128_2119_2126.pdf

EFSA. European Food Safety Authority. (2008). 5'-deoxyadenosylcobalamin and methylcobalamin as sources for Vitamin B12 added as a nutritional substance in food supplements. *EFSA Journal*, 815, 1-21. Available from:

<https://efsa.onlinelibrary.wiley.com/doi/epdf/10.2903/j.efsa.2008.815>

Ehrlich, P. (1880). Beobachtungen über einen Fall von perniciöser, progressiver Anämie mit Sarcombildung. Beiträge zur Lehre von der acuten Herzinsuffizienz (unseen). *Verhandl. Gesellsch. Charité Arzte.* (June 10, Dec 9). Available from: <https://www.pei.de/EN/institute/paul-ehrlich/publications/publications-of-paul-ehrlich-node.html>

Eichholzer, M., Lüthy, J., Moser, U., & Fowler, B. (2001). Folate and the risk of colorectal, breast and cervix cancer: the epidemiological evidence. *Swiss Medical Weekly*, 131(37-38), 539-549. doi:2001/37/smw-09779. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/11759174>; <https://www.zora.uzh.ch/id/eprint/109538/1/smw-09779.pdf>

Elrod, J. M., & Karnad, A. B. (2003). William Bosworth Castle: pioneer of haematological clinical investigation. *British Journal of Haematology*, 121(3), 390-395. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/12716360>; <https://onlinelibrary.wiley.com/doi/pdf/10.1046/j.1365-2141.2003.04242.x>

Eren, O. O., Ozturk, M. A., Sonmez, O. U., & Oyan, B. (2014). Should we be more cautious about replacement of vitamin B12 in patients with cancer receiving cytotoxic chemotherapy? *Medical Hypotheses*, 83(6), 726-729. doi:10.1016/j.mehy.2014.09.027. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/25459143>; [http://www.medical-hypotheses.com/article/S0306-9877\(14\)00353-3/abstract](http://www.medical-hypotheses.com/article/S0306-9877(14)00353-3/abstract)

Erkurt, M. A., Aydogdu, I., Dikilitas, M., Kuku, I., Kaya, E., Bayraktar, N., Ozhan, O., Ozkan, I., & Sonmez, A. (2008). Effects of cyanocobalamin on immunity in patients with pernicious anemia. *Medical Principles and Practice*, 17(2), 131-135. doi:10.1159/000112967. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/18287797>; <https://www.karger.com/Article/Pdf/112967>

Erturk, E., Jaffe, C. A., & Barkan, A. L. (1998). Evaluation of the Integrity of the Hypothalamic-Pituitary-Adrenal Axis by Insulin Hypoglycemia Test1. *The Journal of Clinical Endocrinology & Metabolism*, 83(7), 2350-2354. doi:10.1210/jcem.83.7.4980 %J The Journal of Clinical Endocrinology & Metabolism. Available from: <https://dx.doi.org/10.1210/jcem.83.7.4980>

Esteghamati, A., Hafezi-Nejad, N., Zandieh, A., Sheikhbahaei, S., Ebadi, M., & Nakhjavani, M. (2014). Homocysteine and metabolic syndrome: From clustering to additional utility in prediction of coronary heart disease. *Journal of Cardiology*, 64, 290-296. Available from: <https://www.sciencedirect.com/science/article/pii/S0914508714000471>

Esteller, M. (2003). Relevance of DNA methylation in the management of cancer. *Lancet Oncology*, 4(6), 351-358. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/12788407>; [https://www.thelancet.com/journals/lanonc/article/PIIS1470-2045\(03\)01115-X/fulltext](https://www.thelancet.com/journals/lanonc/article/PIIS1470-2045(03)01115-X/fulltext)

FAO & WHO. Food and Agriculture Organisation of the United Nations and World Health Organisation. (2001). *Human Vitamin and Mineral Requirements: Report of a joint FAO/WHO expert consultation, Bangkok, Thailand*: Food and Agriculture Organisation of the United Nations; World Health Organisation.

FAO & WHO. Food and Agriculture Organisation of the United Nations and World Health Organisation.

(2004). *Vitamin and Mineral Requirements in Human Nutrition*: FAO/WHO Bangkok, Thailand.

Fenech, M. (2012). Folate (vitamin B9) and vitamin B12 and their function in the maintenance of nuclear and mitochondrial genome integrity. *Mutation Research*, 733(1-2), 21-33.

doi:10.1016/j.mrfmmm.2011.11.003. Available from:

<http://www.sciencedirect.com/science/article/pii/S0027510711002934>

Fenwick, S. (1870). On atrophy of the stomach (unseen). *Lancet*, ii, 78.

Ferrante, E., Morelli, V., Giavoli, C., Mantovani, G., Verrua, E., Sala, E., Malcmiodi, E., Bergamaschi, S., Profka, E., Cairoli, E., Palmieri, S., Chiodini, I., Lania, A. G., Spada, A., & Peccoz, P. B. (2012). Is the 250 µg ACTH test a useful tool for the diagnosis of central hypoadrenalinism in adult patients with pituitary disorders? *Hormones (Athens)*, 11(4), 428-435. Available from:

<https://www.ncbi.nlm.nih.gov/pubmed/23422765>

Firth, J., Stubbs, B., Sarris, J., Rosenbaum, S., Teasdale, S., Berk, M., & Yung, A. R. (2017). The effects of vitamin and mineral supplementation on symptoms of schizophrenia: a systematic review and meta-analysis. *Psychological Medicine*, 47(9), 1515-1527. doi:10.1017/S0033291717000022.

Available from: <https://www.ncbi.nlm.nih.gov/pubmed/28202095>;

<https://www.cambridge.org/core/journals/psychological-medicine/article/effects-of-vitamin-and-mineral-supplementation-on-symptoms-of-schizophrenia-a-systematic-review-and-metaanalysis/3CFE6C3B0FED2ED04B9968AD2660EA08>

Flint, A. (1860). A clinical lecture on anaemia, delivered at Long Island Cottage Hospital.

American Medical Times, 1, 181.

Froese, D. S., & Gravel, R. A. (2010). Genetic disorders of vitamin B12 metabolism: eight complementation groups--eight genes. *Expert Reviews in Molecular Medicine*, 12, e37.

doi:10.1017/S1462399410001651. Available from:

<https://www.ncbi.nlm.nih.gov/pubmed/21114891>

Galloway, M., & Hamilton, M. (2007). Macrocytosis: pitfalls in testing and summary of guidance. *BMJ*,

335(7625), 884-886. doi:10.1136/bmj.39325.689641.471. Available from:

<https://www.ncbi.nlm.nih.gov/pubmed/17962289>;

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2043457/pdf/bmj-335-7625-prac-00884.pdf>

Galvin, R., Brathen, G., Ivashynka, A., Hillbom, M., Tanasescu, R., Leone, M. A., & Efns. (2010). EFNS guidelines for diagnosis, therapy and prevention of Wernicke encephalopathy. *European Journal of Neurology*, 17(12), 1408-1418. doi:10.1111/j.1468-1331.2010.03153.x. Available from:

<https://www.ncbi.nlm.nih.gov/pubmed/20642790>;

<https://onlinelibrary.wiley.com/doi/pdf/10.1111/j.1468-1331.2010.03153.x>

Ganguly, P., & Alam, S. F. (2015). Role of homocysteine in the development of cardiovascular disease.

Nutrition Journal, 14(6). doi:10.1186/1475-2891-14-6. Available from:

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4326479/>

Geissbühler, P., Mermilliod, B., & Rapin, C. H. (2000). Elevated serum vitamin B12 levels associated with CRP as a predictive factor of mortality in palliative care cancer patients: a prospective study over five years. *Journal of Pain and Symptom Management*, 20(2), 93-103. Available from:

<https://www.ncbi.nlm.nih.gov/pubmed/10989247>; [http://www.ipsmjournal.com/article/S0885-3924\(00\)00169-X/pdf](http://www.ipsmjournal.com/article/S0885-3924(00)00169-X/pdf)

Genc, L., Kutlu, H. M., & Guney, G. (2015). Vitamin B12-loaded solid lipid nanoparticles as a drug carrier in cancer therapy. *Pharmaceutical Development and Technology*, 20(3), 337-344. doi:10.3109/10837450.2013.867447. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/24344935>

Gilfix, B. M. (2005). Vitamin B12 and homocysteine. *CMAJ: Canadian Medical Association Journal*, 173(11), 1360. doi: 10.1503/cmaj.1050170. Available from: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC1283514/>

Glaser, K., Girschick, H. J., Schropp, C., & Speer, C. P. (2015). Psychomotor development following early treatment of severe infantile vitamin B12 deficiency and West syndrome--is everything fine? A case report and review of literature. *Brain and Development*, 37(3), 347-351. doi:10.1016/j.braindev.2014.05.006. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/24938481>; [https://www.brainanddevelopment.com/article/S0387-7604\(14\)00133-8/fulltext](https://www.brainanddevelopment.com/article/S0387-7604(14)00133-8/fulltext)

Godman, H. (2017, March 31, 2017). Before an MS Diagnosis, Rule Out These Conditions First. Available from: <https://health.usnews.com/wellness/articles/2017-03-31/before-an-ms-diagnosis-rule-out-these-conditions-first>

Goebels, N., & Soyka, M. (2000). Dementia Associated With Vitamin B12 Deficiency. *The Journal of Neuropsychiatry and Clinical Neurosciences*, 12(3), 389-394. doi:10.1176/jnp.12.3.389. Available from: <https://neuro.psychiatryonline.org/doi/full/10.1176/jnp.12.3.389>

Golding, P. H. (2016). Holotranscobalamin (HoloTC, Active-B12) and Herbert's model for the development of vitamin B12 deficiency: a review and alternative hypothesis. *Springerplus*, 5(1), 668. doi:10.1186/s40064-016-2252-z. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/27350907>; https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4899389/pdf/40064_2016_Article_2252.pdf

Gonzalez, C. A., & Riboli, E. (2010). Diet and cancer prevention: Contributions from the European Prospective Investigation into Cancer and Nutrition (EPIC) study. *European Journal of Cancer*, 46(14), 2555-2562. doi:10.1016/j.ejca.2010.07.025. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/20843485>; [https://www.ejcancer.com/article/S0959-8049\(10\)00703-3/fulltext](https://www.ejcancer.com/article/S0959-8049(10)00703-3/fulltext)

Graner, J. L. (1985). Addison, pernicious anemia and adrenal insufficiency. *CMAJ: Canadian Medical Association Journal*, 133(9), 855-857, 880. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/3902186>

Green, R. (2017). Vitamin B12 deficiency from the perspective of a practicing hematologist. *Blood*, 129(19), 2603-2611. doi:10.1182/blood-2016-10-569186. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/28360040>; <http://www.bloodjournal.org/content/bloodjournal/129/19/2603.full.pdf>

Gröber, U., Kisters, K., & Schmidt, J. (2013). Neuroenhancement with vitamin B12-underestimated neurological significance. *Nutrients*, 5(12), 5031-5045. doi:10.3390/nu5125031. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24352086>; <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3875920/pdf/nutrients-05-05031.pdf>

Hamilton, M. S., Blackmore, S., & Lee, A. (2006). Possible cause of false normal B-12 assays. *BMJ*, 333(7569), 654-655. doi:10.1136/bmj.333.7569.654-c. Available from: http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=16990334

- Hannibal, L., Lysne, V., Bjørke-Monsen, A. L., Behringer, S., Grunert, S. C., Spiekerkoetter, U., Jacobsen, D. W., & Blom, H. J. (2016). Biomarkers and Algorithms for the Diagnosis of Vitamin B12 Deficiency. *Frontiers in Molecular Biosciences*, 3, 27. doi:10.3389/fmolb.2016.00027. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/27446930>; <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4921487/pdf/fmolb-03-00027.pdf>
- Haq, M. O., Rusoff, L. L., & Gelpi, A. J., Jr. (1952). Antibiotic feed and vitamin B12 supplements for lactating dairy cows. *Science*, 115(2982), 215-216.
- Harvard Health Publishing, & Harvard Medical School. (2014, March). In brief: B vitamins and homocysteine. *Harvard Health Publishing*. Available from: https://www.health.harvard.edu/staying-healthy/in_brief_b_vitamins_and_homocysteine
- Hathcock, J. N. (2014). Vitamin B12. In D. MacKay, A. Wong, & H. Nguyen (Eds.), *Vitamin and Mineral Safety* (3 ed., pp. 94-97): Council for Responsible Nutrition.
- Hauser, S. L. (2018). Chapter 434. Diseases of the Spinal Cord. In J. L. Jameson, A. S. Fauci, D. L. Kasper, S. L. Hauser, D. L. Longo, & J. Loscalzo (Eds.), *Harrison's Principles of Internal Medicine* (20 ed., Vol. 1, pp. 3172-3183). New York: McGraw Hill Education.
- Hauser, S. L., & Goodin, D. S. (2005). Chapter 359 Multiple Sclerosis and other Demyelinating Diseases. In D. L. Kasper, A. S. Fauci, D. L. Longo, E. Braunwald, S. L. Hauser, & J. L. Jameson (Eds.), *Harrison's Principles of Internal Medicine* (16 ed., Vol. II, pp. 2461-2471). New York: McGraw-Hill.
- Hauser, S. L., & Goodin, D. S. (2008). Chapter 375 Multiple Sclerosis and Other Demyelinating Diseases. In A. S. Fauci, E. Braunwald, D. L. Kasper, S. L. Hauser, D. L. Longo, J. L. Jameson, & J. Loscalzo (Eds.), *Harrison's Principles of Internal Medicine* (17 ed., Vol. II, pp. 2611-2621). New York: McGraw Hill Medical.
- Hauser, S. L., & Goodin, D. S. (2012). Chapter 380 Multiple Sclerosis and other Demyelinating Disorders. In D. L. Longo, A. S. Fauci, D. L. Kasper, S. L. Hauser, J. L. Jameson, & J. Loscalzo (Eds.), *Harrison's Principles of Internal Medicine* (18 ed., Vol. 2, pp. 3395-3409). New York: McGraw Hill Medical.
- Hemmer, B., Glockner, F. X., Schumacher, M., Deuschl, G., & Lucking, C. H. (1998). Subacute combined degeneration: clinical, electrophysiological, and magnetic resonance imaging findings. *Journal of Neurology, Neurosurgery and Psychiatry*, 65(6), 822-827. Available from: http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=9854956; <http://www.ncbi.nlm.nih.gov/picrender.fcgi?artid=2170379&blobtype=pdf>
- Hemminki, K., Liu, X., Forsti, A., Sundquist, J., Sundquist, K., & Ji, J. (2015). Subsequent Type 2 Diabetes in Patients with Autoimmune Disease. *Scientific Reports*, 5, 13871. doi:10.1038/srep13871. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/26350756>; <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4563366/pdf/srep13871.pdf>
- Herbert, V. (1987). The 1986 Herman award lecture. Nutrition science as a continually unfolding story: the folate and vitamin B-12 paradigm. *American Journal of Clinical Nutrition*, 46(3), 387-402. doi:10.1093/ajcn/46.3.387. Available from: <https://academic.oup.com/ajcn/article-abstract/46/3/387/4694497?redirectedFrom=fulltext>
- Herbert, V. (2002). Vitamin B12 - an overview. In V. Herbert (Ed.), *Vitamin B12 deficiency* (pp. 1-8). Key West, Florida: Royal Society of Medicine Press. (Reprinted from: 1999).

Herbert, V., & Zalusky, R. (1962). Interrelations of vitamin B12 and folic acid clearance studies. *Journal of Clinical Investigation*, 41, 1263-1276. doi:10.1172/JCI104589. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/13906634>; <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC291041/pdf/jcinvest00315-0081.pdf>

Hodgkin, D. C. (1958). X-ray analysis and the structure of vitamin B12. *Fortschritte der Chemie Organischer Naturstoffe*, 15, 167-220. Available from: http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=13597976

Hodgkin, D. C., Kamper, J., Mackay, M., Pickworth, J., Trueblood, K. N., & White, J. G. (1956). Structure of vitamin B12. *Nature*, 178(4524), 64-66. Available from: http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=13348621

Hodgkin, D. G., Pickworth, J., Robertson, J. H., Trueblood, K. N., Prosen, R. J., & White, J. G. (1955). The crystal structure of the hexacarboxylic acid derived from B12 and the molecular structure of the vitamin. *Nature*, 176(4477), 325-328. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/13253565>

Hoffbrand, A. V. (2008). Chapter 100 Megaloblastic Anemias. In A. S. Fauci, E. Braunwald, D. L. Kasper, S. L. Hauser, D. L. Longo, J. L. Jameson, & J. Loscalzo (Eds.), *Harrison's Principles of Internal Medicine* (17 ed., Vol. 2, pp. 643-651). New York: McGraw-Hill Medical.

Hoffbrand, A. V. (2012). Chapter 105. Megaloblastic Anemias. In D. L. Longo, A. S. Fauci, D. L. Kasper, S. L. Hauser, J. L. Jameson, & J. Loscalzo (Eds.), *Harrison's Principles of Internal Medicine* (18 ed., Vol. 1, pp. 862-872). New York: McGraw Hill Medical.

Hoffbrand, A. V. (2018). Chapter 95 Megaloblastic Anemias. In J. L. Jameson, A. S. Fauci, D. L. Kasper, S. L. Hauser, D. L. Longo, & J. Loscalzo (Eds.), *Harrison's Principles of Internal Medicine* (20 ed., Vol. 1, pp. 698-708). New York: McGraw Hill Education.

Hoffbrand, A. V., & Provan, D. (1997). ABC of clinical haematology. Macrocytic anaemias. *BMJ*, 314(7078), 430-433. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/9040391>

Hoffbrand, A. V., & Weir, D. G. (2001). The history of folic acid. *British Journal of Haematology*, 113(3), 579-589. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/11380441>

Holtorf, K. (2008). Diagnosis and Treatment of Hypothalamic-Pituitary-Adrenal (HPA) Axis Dysfunction in Patients with Chronic Fatigue Syndrome (CFS) and Fibromyalgia (FM). *Journal of Chronic Fatigue Syndrome*, 14(3). doi:10.1300/J092v14no3_06. Available from: <https://www.holtorfm.com/dr-pdf/Diagnosis%20Treatment%20CFS%20FM.pdf>

Honzik, T., Adamovicova, M., Smolka, V., Magner, M., Hruba, E., & Zeman, J. (2010). Clinical presentation and metabolic consequences in 40 breastfed infants with nutritional vitamin B12 deficiency--what have we learned? *European Journal of Paediatric Neurology*, 14(6), 488-495. doi:10.1016/j.ejpn.2009.12.003. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/20089427>

Hooper, M. (2013). *Living with Pernicious Anaemia and Vitamin B12 Deficiency*. London: Hammersmith Health Books.

Hooper, M. (2015). *What you need to know about Pernicious Anaemia and Vitamin B12 Deficiency*. London: Hammersmith Health Books.

- Hooper, M., Hudson, P., Porter, F., & McCaddon, A. (2014). Patient journeys: diagnosis and treatment of pernicious anaemia. *British Journal of Nursing*, 23(7), 376-381. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24732991>
- Hsing, A. W., Hansson, L. E., McLaughlin, J. K., Nyren, O., Blot, W. J., Ekbom, A., & Fraumeni, J. F., Jr. (1993). Pernicious anemia and subsequent cancer. A population-based cohort study. *Cancer*, 71(3), 745-750. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/8431855>
- Hultdin, J., Van Guelpen, B., Bergh, A., Hallmans, G., & Stattin, P. (2005). Plasma folate, vitamin B12, and homocysteine and prostate cancer risk: a prospective study. *International Journal of Cancer*, 113(5), 819-824. doi:10.1002/ijc.20646. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/15499634>; http://onlinelibrary.wiley.com/store/10.1002/ijc.20646/asset/20646_ftp.pdf?v=1&t=j1mo1xhm&s=b0e974b510c322e06513fceadb423f49abae05c5
- Hunt, A., Harrington, D., & Robinson, S. (2014). Vitamin B12 deficiency. *BMJ*, 349, g5226. doi:10.1136/bmj.g5226. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/25189324>; <https://www.bmj.com/content/349/bmj.g5226.long>
- Huser, H.-J. (1966). A note on Biermer's anemia (unseen). *Medical Clinics of North America*, 50, 1611.
- Hvas, A. M., & Nexo, E. (2006). Diagnosis and treatment of vitamin B12 deficiency--an update. *Haematologica*, 91(11), 1506-1512. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/17043022>; <http://www.haematologica.org/content/haematol/91/11/1506.full.pdf>;
- IARC. World Health Organisation: International Agency for Research on Cancer. (2018). *All Cancers*. Available from: <http://gco.iarc.fr/today/data/factsheets/cancers/39-All-cancers-fact-sheet.pdf>
- Ihara, H., Hashizume, N., Totani, M., Inage, H., Kimura, S., Nagamura, Y., Sudo, K., Aoki, Y., Saeki, H., Sagawa, N., Kamioka, K., Shimizu, K., Watanabe, R., Watanabe, M., Hirayama, K., Nakamori, M., Takenami, K., Yoshida, M., Kawasaki, Y., Ogiwara, T., Kawai, T., & Watanabe, T. (2008). Traditional reference values for serum vitamin B12 and folate are not applicable to automated serum vitamin B12 and folate assays: comparison of value from three automated serum vitamin B12 and folate assays. *Journal of Analytical Bio-Science*, 31(4), 291-298. Available from: <http://plaza.umin.ac.jp/j-jabs/31/ft.31.291.pdf>
- Independent. (1999, 23 Nov). The mother of all miracles, Indy/Life. *Independent Indy/Life*. Available from: <https://www.independent.co.uk/life-style/health-and-families/health-news/the-mother-of-all-miracles-742046.html>
- International Human Genome Sequencing Consortium. (2001). Initial sequencing and analysis of the human genome. *Nature*, 409, 860. doi:10.1038/35057062. Available from: <http://dx.doi.org/10.1038/35057062>; <https://www.nature.com/articles/35057062.pdf>
- IoM. Institute of Medicine. (1998a). Appendix N: Estimation of the period covered by Vitamin B12 stores. In *Dietary Reference Intakes for Thiamin, Riboflavin, Niacin, Vitamin B6, Folate, Vitamin B12, Pantothenic Acid, Biotin, and Choline* (10.17226/6015pp. 527-530). Washington (DC): National Academies Press (US); Institute of Medicine; National Academies of Science.
- IoM. Institute of Medicine. (1998b). *Dietary Reference Intakes for Thiamin, Riboflavin, Niacin, Vitamin B6, Folate, Vitamin B12, Pantothenic Acid, Biotin, and Choline*. Available from: <https://www.nap.edu/catalog/6015/dietary-reference-intakes-for-thiamin-riboflavin-niacin-vitamin-b6-folate-vitamin-b12-pantothenic-acid-biotin-and-choline>

- IoM. Institute of Medicine. (1998c). *Vitamin B12*. Available from:
<https://www.nap.edu/catalog/6015/dietary-reference-intakes-for-thiamin-riboflavin-niacin-vitamin-b6-folate-vitamin-b12-pantothenic-acid-biotin-and-choline>
- Issac, T. G., Soundarya, S., Christopher, R., & Chandra, S. R. (2015). Vitamin B12 deficiency: an important reversible co-morbidity in neuropsychiatric manifestations. *Indian Journal of Psychological Medicine*, 37(1), 26-29. doi:10.4103/0253-7176.150809. Available from:
<https://www.ncbi.nlm.nih.gov/pubmed/25722508>; <http://www.ijpm.info/article.asp?issn=0253-7176;year=2015;volume=37;issue=1;spage=26;epage=29;aulast=Issac>
- Jackson, C. (Writer) & C. Jackson (Director). (2006). Inside Out - B12 Deficiency [BBC TV North East]. In C. Jackson (Producer), *Inside Out*. UK: BBC. Available from:
<http://www.youtube.com/watch?v=lXx7uIYBcXk>
- Jägerstad, M. (2012). Folic acid fortification prevents neural tube defects and may also reduce cancer risks. *Acta Paediatrica*, 101(10), 1007-1012. doi:10.1111/j.1651-2227.2012.02781.x. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/22783992>;
<https://onlinelibrary.wiley.com/doi/pdf/10.1111/j.1651-2227.2012.02781.x>
- Jewells, V., Horsley, L. C., Markovic-Plese, S., & Troiani, L. (2015). Completing the Differential: A Comprehensive Discussion of Multiple Sclerosis Mimics. *Neurographics*, 5, 148-166. doi:10.3174/ng.4150120.
- Jiang, C.-L., He, S.-W., Zhang, Y.-D., Duan, H.-X., Huang, T., Huang, Y.-C., Li, G.-F., Wang, P., Ma, L.-J., Zhou, G.-B., & Cao, Y. (2017). Air pollution and DNA methylation alterations in lung cancer: A systematic and comparative study. *Oncotarget*, 8(1), 1369-1391. doi:10.18632/oncotarget.13622. Available from:
<https://www.ncbi.nlm.nih.gov/pubmed/27901495>
- Jones, G. (2015, 4 Feb 2015). Why are cancer rates increasing? Available from:
<https://scienceblog.cancerresearchuk.org/2015/02/04/why-are-cancer-rates-increasing/>
- Juno Pharmaceuticals. (2015). SYNACTHEN® New Zealand Data Sheet. In Juno Pharmaceuticals NZ Ltd (Ed.). Manukau, Auckland, New Zealand: Medsafe New Zealand Medicines and Medical Devices Safety Authority. Available from:
<http://www.medsafe.govt.nz/profs/Datasheet/s/synactheninj.pdf>
- JustVitamins. (2014, 4 Mar 2014). What are Fat-Soluble Vitamins? Available from:
<https://www.justvitamins.co.uk/blog/what-are-fat-soluble-vitamins/#.Wb7RiciGMuU>
- JustVitamins. (2016, May 5). Is RDA the same as NRV? Available from:
<https://www.justvitamins.co.uk/blog/rda-or-nrv/#.W8jc32hKjD5>
- Kamath, A., & Pemminati, S. (2017). Methylcobalamin in Vitamin B12 Deficiency: To Give or not to Give? *Journal of Pharmacology & Pharmacotherapeutics*, 8(1), 33-34. doi:10.4103/jpp.JPP_173_16. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/28405134>;
<http://www.jpharmacol.com/article.asp?issn=0976-500X;year=2017;volume=8;issue=1;spage=33;epage=34;aulast=Kamath>
- Kamper, M. J., & Hodgkin, D. C. (1955). Some observations on the crystal structure of a chlorine-substituted vitamin B12. *Nature*, 176(4481), 551-553. Available from:
<http://www.ncbi.nlm.nih.gov/pubmed/13265771>

- Kasperlik-Zaluska, A. A., Czarnocka, B., Czech, W., Walecki, J., Makowska, A. M., Brzezinski, J., & Aniszewski, J. (1998). Secondary adrenal insufficiency associated with autoimmune disorders: a report of twenty-five cases. *Clinical Endocrinology*, 49(6), 779-783. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/10209566>; <https://onlinelibrary.wiley.com/doi/abs/10.1046/j.1365-2265.1998.00611.x>
- Kassebaum, N. J., Jasrasaria, R., Naghavi, M., Wulf, S. K., Johns, N., Lozano, R., Regan, M., Weatherall, D., Chou, D. P., Eisele, T. P., Flaxman, S. R., Pullan, R. L., Brooker, S. J., & Murray, C. J. L. (2014). A systematic analysis of global anemia burden from 1990 to 2010. *Blood*, 123(5), 615-624. doi:10.1182/blood-2013-06-508325. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/24297872>; <http://www.bloodjournal.org/content/bloodjournal/123/5/615.full.pdf>
- Kennedy, D. O. (2016). B Vitamins and the Brain: Mechanisms, Dose and Efficacy--A Review. *Nutrients*, 8(2), 68. doi:10.3390/nu8020068. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/26828517>; https://res.mdpi.com/nutrients/nutrients-08-00068/article_deploy/nutrients-08-00068.pdf?filename=&attachment=1
- Khalil, R., Naqvi, S., & Chastain, V. (2012). Vitamin B12 deficiency as a cause of hemolytic anemia. *Journal of Hospital Medicine*, 7(2). Available from: <https://www.shmabstracts.com/abstract/vitamin-b12-deficiency-as-a-cause-of-hemolytic-anemia/>
- Khan, S., Del-Duca, C., Fenton, E., Holding, S., Hirst, J., Dore, P. C., & Sewell, W. A. (2009). Limited value of testing for intrinsic factor antibodies with negative gastric parietal cell antibodies in pernicious anaemia. *Journal of Clinical Pathology*, 62(5), 439-441. doi:10.1136/jcp.2008.060509. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/19398595>; <http://jcp.bmj.com/content/62/5/439.long>
- Kibirige, D., & Mwebaze, R. (2013). Vitamin B12 deficiency among patients with diabetes mellitus: is routine screening and supplementation justified? *J Diabetes Metab Disord*, 12(1), 17. doi:10.1186/2251-6581-12-17. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/23651730>; <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3649932/pdf/2251-6581-12-17.pdf>
- Kim, S., Thiessen, P. A., Bolton, E. E., Chen, J., Fu, G., Gindulyte, A., Han, L., He, J., He, S., Shoemaker, B. A., Wang, J., Yu, B., Zhang, J., & Bryant, S. H. (2016). PubChem Substance and Compound databases. *Nucleic Acids Research*, 44(D1), D1202-1213. doi:10.1093/nar/gkv951. Available from: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4702940/pdf/gkv951.pdf>
- Kim, Y.-I. (2006). Does a high folate intake increase the risk of breast cancer? *Nutrition Reviews*, 64(10 Pt 1), 468-475. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/17063929>
- Kim, Y.-I. (2007). Folate and colorectal cancer: an evidence-based critical review. *Molecular Nutrition & Food Research*, 51(3), 267-292. doi:10.1002/mnfr.200600191. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/17295418>; <https://onlinelibrary.wiley.com/doi/abs/10.1002/mnfr.200600191>
- Kira, J., Tobimatsu, S., & Goto, I. (1994). Vitamin B12 metabolism and massive-dose methyl vitamin B12 therapy in Japanese patients with multiple sclerosis. *Internal Medicine*, 33(2), 82-86. Available from: http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&doct=Citation&list_uids=8019047

Kocer, B., Engur, S., Ak, F., & Yilmaz, M. (2009). Serum vitamin B12, folate, and homocysteine levels and their association with clinical and electrophysiological parameters in multiple sclerosis. *Journal of Clinical Neuroscience*, 16(3), 399-403. doi:10.1016/j.jocn.2008.05.015. Available from: http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=19153046

Koury, M. J., & Ponka, P. (2004). NEW INSIGHTS INTO ERYTHROPOIESIS: The Roles of Folate, Vitamin B12, and Iron. *Annual Review of Nutrition*, 24(1), 105-131. doi:10.1146/annurev.nutr.24.012003.132306. Available from: <https://doi.org/10.1146/annurev.nutr.24.012003.132306>

Kresser, C. (2012, 9 Mar 2012). The little known (but crucial) difference between folate and folic acid. Available from: <https://chriskresser.com/folate-vs-folic-acid/>

Kumarappa, B. (Ed.) (1951). *Basic Education (Mahatma Gandhi sayings on Education vol. 1)* (1 ed. Vol. 1). Ahmedabad: Navajivan Publishing House.

Kurkowska-Jastrzębska, I., Wicha, W., & Czonkowska, A. (2006). Vitamin B12 deficiency can mimic multiple sclerosis – report of two cases. *Case Reports and Clinical Practice Review*, 7, 64-68. Available from: <https://www.amjcaserrep.com/download/index/idArt/449522>

Lachner, C., Steinle, N. I., & Regenold, W. T. (2012). The neuropsychiatry of vitamin B12 deficiency in elderly patients. *Journal of Neuropsychiatry and Clinical Neurosciences*, 24(1), 5-15. doi:10.1176/appi.neuropsych.11020052. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/22450609>; <http://psychiatryonline.org/data/Journals/NP/20365/jnp00112000005.pdf>

Landecker, H. (2011). Food as exposure: Nutritional epigenetics and the new metabolism. *Biosocieties*, 6(2), 167-194. doi:10.1057/biosoc.2011.1. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/23227106>; <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3500842/pdf/biosoc2011a.pdf>

Laureti, S., Vecchi, L., Santeusanio, F., & Falorni, A. (1999). Is the Prevalence of Addison's Disease Underestimated? *The Journal of Clinical Endocrinology & Metabolism*, 84(5), 1762-1762. doi:10.1210/jcem.84.5.5677-7. Available from: <http://dx.doi.org/10.1210/jcem.84.5.5677-7>

Laybourn, P. (2001). Gene Regulation. In S. Brenner & J. H. Miller (Eds.), *Encyclopedia of Genetics* (10.1006/rwgn.2001.0520pp. 803-813). San Diego: Academic Press.

Lee, K. W. K., & Pausova, Z. (2013). Cigarette smoking and DNA methylation. *Frontiers in Genetics*, 4, 132. doi:10.3389/fgene.2013.00132. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/23882278>; <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3713237/pdf/fgene-04-00132.pdf>

Leelarathna, L., Powrie, J. K., & Carroll, P. V. (2009). Thomas Addison's disease after 154 years: modern diagnostic perspectives on an old condition. *QJM*, 102(8), 569-573. doi:10.1093/qjmed/hcp053. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/19420117>

Leichtenstern, O. M. (1884). Progressive perniciöse anämie bei tabeskranken. *Deutsche Medizinische Wochenschrift*, 10, 849-850.

Li, X., Hao, L., Yang, Y., Lu, W., & Xu, M. (2017). The association of serum folate, vitamin B12, homocysteine levels with pregnancy complications and newborn health in pregnant women.

International Journal of Clinical and Experimental Medicine, 10(7), 11213-11219. Available from: <http://www.ijcem.com/files/ijcem0052364.pdf>

Lichtheim, L. (1887). Zur kenntniss der perniciösen anämie. *Munchener Medizinische Wochenschrift*, 34, 301-306.

Lieutaud, J. (1816). *Synopsis of the Universal Practice of Medicine: Exhibiting a Concise View of All Diseases, Both Internal and External: Illustrated with Complete Commentaries* (edited and translated by): Edward and Richard Parker, Philadelphia.

Lindenbaum, J., Healton, E. B., Savage, D. G., Brust, J. C., Garrett, T. J., Podell, E. R., Marcell, P. D., Stabler, S. P., & Allen, R. H. (1988). Neuropsychiatric disorders caused by cobalamin deficiency in the absence of anemia or macrocytosis. *New England Journal of Medicine*, 318(26), 1720-1728. doi:10.1056/NEJM198806303182604. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/3374544>

Lorber, S. H., & Shay, H. (1950). Entero-hepatic circulation of bromsulphalein. *Journal of Clinical Investigation*, 29(6), 831. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/15436781>

Lorber, S. H., & Shay, H. (1952). Entero-hepatic circulation of bromsulphalein. I. Studies on man with special reference to the clinical BSP test. *Gastroenterology*, 20(2), 262-271. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/14906620>

Lu, F., & Zhang, H. T. (2011). DNA Methylation and Nonsmall Cell Lung Cancer. *The Anatomical Record*, 294(11), 1787-1795. doi:10.1002/ar.21471. Available from: <https://onlinelibrary.wiley.com/doi/full/10.1002/ar.21471>

Lyford, C., Dinnerstein, E., & Ramachandran, T. S. (2017, 27 Jul 2017). Marchiafava-Bignami Disease. Available from: <http://emedicine.medscape.com/article/1146086-overview>

Mahalle, N., Kulkarni, M. V., Garg, M. K., & Naik, S. S. (2013). Vitamin B12 deficiency and hyperhomocysteinemia as correlates of cardiovascular risk factors in Indian subjects with coronary artery disease. *Journal of Cardiology*, 61(4), 289-294. Available from: <https://www.sciencedirect.com/science/article/pii/S0914508713000427>

Mandel, L. R. (2009). Endocrine and autoimmune aspects of the health history of John F. Kennedy. *Annals of Internal Medicine*, 151(5), 350-354. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/19721023>

McBride, J. (2000, 2 Aug). B12 Deficiency May Be More Widespread Than Thought. *Agricultural Research Service*. Available from: <http://www.ars.usda.gov/is/pr/2000/000802.htm>

McCullough, L. E., Miller, E. E., Mendez, M. A., Murtha, A. P., Murphy, S. K., & Hoyo, C. (2016). Maternal B vitamins: effects on offspring weight and DNA methylation at genetically imprinted domains. *Clinical Epigenetics*, 8, 8. doi:10.1186/s13148-016-0174-9. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/26807160>; https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4722751/pdf/13148_2016_Article_174.pdf

McKay, J. A., Groom, A., Potter, C., Coneyworth, L. J., Ford, D., Mathers, J. C., & Relton, C. L. (2012). Genetic and non-genetic influences during pregnancy on infant global and site specific DNA methylation: role for folate gene variants and vitamin B12. *PloS One*, 7(3), e33290. doi:10.1371/journal.pone.0033290. Available from: <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3316565/pdf/pone.0033290.pdf>

- McKay, J. A., & Mathers, J. C. (2011). Diet induced epigenetic changes and their implications for health. *Acta Physiologica (Oxford, England)*, 202(2), 103-118. doi:10.1111/j.1748-1716.2011.02278.x. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/21401888>; <https://onlinelibrary.wiley.com/doi/abs/10.1111/j.1748-1716.2011.02278.x>
- McLean, E., de Benoist, B., & Allen, L. H. (2008). Review of the magnitude of folate and vitamin B12 deficiencies worldwide. *Food and Nutrition Bulletin*, 29(2 Suppl), S38-51. doi:10.1177/15648265080292S107. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/18709880>
- Merck & Co. (1958). *Vitamin B12* (Merck & Co Inc Ed., 10.1002/jps.3030471131). Rahway, New Jersey: Merck & Co Inc Chemical Division.
- MeSH. Medical Subject Headings. Vitamin B12 MeSH unique ID D014805. *Medical Subject Headings, National Center for Biotechnology Information*. Available from: <https://www.ncbi.nlm.nih.gov/mesh/68014805>
- Mete, N., Gulbahar, O., Aydin, A., Sin, A. Z., Kokuludag, A., & Sezik, F. (2004). Low B12 levels in chronic idiopathic urticaria. *Journal of Investigational Allergology and Clinical Immunology*, 14(4), 292-299. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/15736714>
- Miller, A., Korem, M., Almog, R., & Galboiz, Y. (2005). Vitamin B12, demyelination, remyelination and repair in multiple sclerosis. *Journal of the Neurological Sciences*, 233(1-2), 93-97. doi:10.1016/j.jns.2005.03.009. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/15896807>, [http://www.jns-journal.com/article/S0022-510X\(05\)00087-0/pdf](http://www.jns-journal.com/article/S0022-510X(05)00087-0/pdf)
- Miller, D. R., & Hayes, K. C. (1982). Vitamin Excess and Toxicity. In J. N. Hathcock (Ed.), *Nutritional Toxicology* (Vol. 1, pp. 81-133). New York; London: Academic Press.
- Mills, J. L., Carter, T. C., Kay, D. M., Browne, M. L., Brody, L. C., Liu, A., Romitti, P. A., Caggana, M., & Druschel, C. M. (2012). Folate and vitamin B12-related genes and risk for omphalocele. *Human Genetics*, 131(5), 739-746. doi:10.1007/s00439-011-1117-3. Available from: <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3374579/pdf/nihms379362.pdf>
- Minalyan, A., Benhammou, J. N., Artashesyan, A., Lewis, M. S., & Pisegna, J. R. (2017). Autoimmune atrophic gastritis: current perspectives. *Clinical and Experimental Gastroenterology*, 10, 19-27. doi:10.2147/CEG.S109123. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/28223833>; <https://www.dovepress.com/getfile.php?fileID=34757>
- Mind UK. (2017, Sept 2017). Sectioning (Mental Health Act 1983). Available from: <https://www.mind.org.uk/information-support/legal-rights/sectioning/about-sectioning/>
- Minnet, C., Koc, A., Aycicek, A., & Kocyigit, A. (2011). Vitamin B12 treatment reduces mononuclear DNA damage. *Pediatrics International*, 53(6), 1023-1027. doi:10.1111/j.1442-200X.2011.03448.x. Available from: <http://onlinelibrary.wiley.com/doi/10.1111/j.1442-200X.2011.03448.x/abstract>; <https://onlinelibrary.wiley.com/doi/abs/10.1111/j.1442-200X.2011.03448.x>
- Minney, H. (2010, 23-8-2010). B12 deficiency - cost of mis-diagnosis. Available from: <http://www.b12d.org/misdiagnosis>
- Minot, G. R., & Murphy, W. P. (1926). Treatment of pernicious anemia by a special diet [1926 article] reproduced in *Yale Journal of Biology and Medicine*, 74(5): pp. 341-353. *Journal of the American Medical Association*, 87, 470-476. Available from:

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=11769340;
<http://www.ncbi.nlm.nih.gov/picrender.fcgi?artid=2588744&blobtype=pdf>

Minot, G. R., & Murphy, W. P. (1983). Landmark article (JAMA 1926). Treatment of pernicious anemia by a special diet. By George R. Minot and William P. Murphy. *JAMA*, 250(24), 3328-3335. Available from:

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=6358569

Molloy, A. M. (2018). Should vitamin B12 status be considered in assessing risk of neural tube defects? *Annals of the New York Academy of Sciences*, 1414(1), 109-125. doi:10.1111/nyas.13574. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29377209>; <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5887889/pdf/NYAS-1414-109.pdf>

Molloy, A. M., Kirke, P. N., Brody, L. C., Scott, J. M., & Mills, J. L. (2008). Effects of folate and vitamin B12 deficiencies during pregnancy on fetal, infant, and child development. *Food and Nutrition Bulletin*, 29(2 Suppl), S101-111; discussion S112-105. doi:10.1177/15648265080292S114. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/18709885>

Molloy, A. M., Kirke, P. N., Troendle, J. F., Burke, H., Sutton, M., Brody, L. C., Scott, J. M., & Mills, J. L. (2009). Maternal vitamin B12 status and risk of neural tube defects in a population with high neural tube defect prevalence and no folic Acid fortification. *Pediatrics*, 123(3), 917-923. doi:10.1542/peds.2008-1173. Available from: <http://pediatrics.aappublications.org/content/123/3/917.full.pdf>

Molloy, A. M., Mills, J. L., McPartlin, J., Kirke, P. N., Scott, J. M., & Daly, S. (2002). Maternal and fetal plasma homocysteine concentrations at birth: the influence of folate, vitamin B12, and the 5,10-methylenetetrahydrofolate reductase 677C-->T variant. *American Journal of Obstetrics and Gynecology*, 186(3), 499-503. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/11904614>; [https://www.ajog.org/article/S0002-9378\(02\)47284-5/fulltext](https://www.ajog.org/article/S0002-9378(02)47284-5/fulltext)

Morel, S., Georges, A., Bordenave, L., & Corcuff, J. B. (2009). Thyroid and gastric autoimmune diseases. *Annales d'Endocrinologie*, 70(1), 55-58. doi:10.1016/j.ando.2008.11.003. Available from: <http://www.sciencedirect.com/science/article/pii/S0003426608002540>

Murphy, M. M., Molloy, A. M., Ueland, P. M., Fernandez-Ballart, J. D., Schneede, J., Arija, V., & Scott, J. M. (2007). Longitudinal study of the effect of pregnancy on maternal and fetal cobalamin status in healthy women and their offspring. *Journal of Nutrition*, 137(8), 1863-1867. doi:10.1093/jn/137.8.1863. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/17634256>

Nagao, T., & Hirokawa, M. (2017). Diagnosis and treatment of macrocytic anemias in adults. *J Gen Fam Med*, 18(5), 200-204. doi:10.1002/jgf2.31. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29264027>; <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5689413/pdf/JGF2-18-200.pdf>

National Cancer Institute. (2015, Feb 15 2015). What is Cancer? Available from: <https://www.cancer.gov/about-cancer/understanding/what-is-cancer>

National Institute on Ageing. (2017, 2017-07-24). Alzheimer's Disease Genetics Fact Sheet. Available from: <https://www.nia.nih.gov/health/alzheimers-disease-genetics-fact-sheet>

National Library of Medicine (US). (2018a, Oct 2 2018). What is a genome? *Genetics Home Reference*. Available from: <https://ghr.nlm.nih.gov/primer/hgp/genome>

National Library of Medicine (US). (2018b, Oct 2 2018). What is DNA? *Genetics Home Reference*. Available from: <https://ghr.nlm.nih.gov/primer/basics/dna>

Neitzel, H., & Trimborn, M. (2007). Human Chromosomes: Structural and Functional Aspects. In G. Obe & Vijayalakshmi (Eds.), *Chromosomal Alterations: Methods, Results and Importance in Human Health* (pp. 1-20). Berlin and Heidelberg: Springer Science & Business Media.

Nemlekar, S. S., Mehta, R. Y., Dave, K. R., & Shah, N. D. (2016). Marchiafava: Bignami Disease Treated with Parenteral Thiamine. *Indian Journal of Psychological Medicine*, 38(2), 147-149. doi:10.4103/0253-7176.178810. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/27114628>; <http://www.ijpm.info/article.asp?issn=0253-7176;year=2016;volume=38;issue=2;spage=147;epage=149;aulast=Nemlekar>

NEQAS. UK National Quality Assessment Scheme for Haematinic Assays. (2014, 18 Feb 2014). B12 ALERT: False normal B12 results and the risk of neurological damage. *United Kingdom National Quality Assessment Scheme for Haematinic Assays*. Available from: <http://archive.is/hbPHE#selection-73.1-72.2>

Ness-Abramof, R., Nabriski, D. A., Braverman, L. E., Shilo, L., Weiss, E., Reshef, T., Shapiro, M. S., & Shenkman, L. (2006). Prevalence and evaluation of B12 deficiency in patients with autoimmune thyroid disease. *American Journal of the Medical Sciences*, 332(3), 119-122. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/16969140>; [https://www.amjmedsci.org/article/S0002-9629\(15\)32718-X/fulltext](https://www.amjmedsci.org/article/S0002-9629(15)32718-X/fulltext)

Neufeld, M., & Blizzard, R. M. (1980). Polyglandular autoimmune diseases. In A. Pinchera, D. Doniach, G. Fenzi, & L. Baschieri (Eds.), *Autoimmune aspects of endocrine disorders: Symposium Proceedings (Serono Symposia International Foundation symposium held in Pisa, Italy)* (Vol. 33, pp. 357-365). London, New York: Academic Press.

Neufeld, M., Maclaren, N., & Blizzard, R. (1980). Autoimmune polyglandular syndromes. *Pediatric Annals*, 9(4), 154-162. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/6990358>

Nexo, E., & Hoffmann-Lücke, E. (2011). Holotranscobalamin, a marker of vitamin B-12 status: analytical aspects and clinical utility. *American Journal of Clinical Nutrition*, 94(1), 359S-365S. doi:10.3945/ajcn.111.013458. Available from: <http://ajcn.nutrition.org/content/94/1/359S.full.pdf>

NHS. (2016a, 16 May 2016). Complications: vitamin B12 or folate deficiency anaemia. Available from: <https://www.nhs.uk/conditions/vitamin-b12-or-folate-deficiency-anaemia/complications/>

NHS. (2016b, 17 Feb 2016). Multiple Sclerosis. *Health A-Z*. Available from: <https://www.nhs.uk/conditions/multiple-sclerosis/>

NHS. (2016c, 16 May 2016). Overview: Vitamin B12 or folate deficiency anaemia. Available from: <https://www.nhs.uk/conditions/vitamin-b12-or-folate-deficiency-anaemia/>

NHS. (2016d, 16 May 2016). Treatment: Vitamin B12 or folate deficiency anaemia. *Health A-Z*. Available from: <https://www.nhs.uk/conditions/vitamin-b12-or-folate-deficiency-anaemia/treatment/>

NHS. (2016e, 17 Oct 2016). Vitiligo. *Health A-Z*. Available from: <https://www.nhs.uk/conditions/vitiligo/>

- NHS. (2017, 16 May 2017). Overview: Chronic Fatigue Syndrome (CFS/ME). *Health A-Z*. Available from: <https://www.nhs.uk/conditions/chronic-fatigue-syndrome-cfs/>
- NHS. (2018, 8 Aug 2018). Vegetarian and vegan mums-to-be. *Eat Well*:. Available from: <https://www.nhs.uk/live-well/eat-well/vegetarian-and-vegan-mums-to-be/>
- NICE. National Institute for Health and Care Excellence. (2015, 30 Sep 2015). Active B12 assay for diagnosing vitamin B12 deficiency: Medtech Innovation Briefing. Available from: <https://www.nice.org.uk/advice/mib40/resources/active-b12-assay-for-diagnosing-vitamin-b12-deficiency-pdf-63499159342789>
- NICE CKS. National Institute for Health and Care Excellence Clinical Knowledge Summaries. (2018a, March). Anaemia - B12 and folate deficiency. Available from: <https://cks.nice.org.uk/anaemia-b12-and-folate-deficiency#!topicssummary>
- NICE CKS. National Institute for Health and Care Excellence Clinical Knowledge Summaries. (2018b, Feb). Multiple Sclerosis. Available from: <https://cks.nice.org.uk/multiple-sclerosis>
- Nicolaides, N. C., Chrousos, G. P., & Charmandari, E. (2017, October 14 2017). Adrenal Insufficiency. Available from: <https://www.ncbi.nlm.nih.gov/books/NBK279083/>
- NIDDK. National Institute of Diabetes and Digestive and Kidney Diseases. (2016, Nov 2016). What is Diabetes? Available from: <https://www.niddk.nih.gov/health-information/diabetes/overview/what-is-diabetes>
- NIDDK. National Institute of Diabetes and Digestive and Kidney Diseases. (2018, May 2018). Cushing's Syndrome. Available from: <https://www.niddk.nih.gov/health-information/endocrine-diseases/cushings-syndrome>
- Nielsen, M. J., Rasmussen, M. R., Andersen, C. B., Nexo, E., & Moestrup, S. K. (2012). Vitamin B12 transport from food to the body's cells--a sophisticated, multistep pathway. *Nature Reviews: Gastroenterology & Hepatology*, 9(6), 345-354. doi:10.1038/nrgastro.2012.76. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/22547309>; <http://www.nature.com/articles/nrgastro.2012.76>
- NIH. National Institutes of Health. (2017). *PubChem Open Chemistry Database*. Available from: <https://pubchem.ncbi.nlm.nih.gov/>
- NIH ODS. National Institutes of Health Office of Dietary Supplements. (2011a). Vitamin B6: Dietary Supplement Fact Sheet. Available from: <https://ods.od.nih.gov/factsheets/VitaminB6-HealthProfessional/>
- NIH ODS. National Institutes of Health Office of Dietary Supplements. (2011b). *Vitamin B12: Fact Sheet for Consumers*. Available from: <https://ods.od.nih.gov/factsheets/VitaminB12-Consumer/>
- NIH ODS. National Institutes of Health Office of Dietary Supplements. (2018a). Dietary Supplement Fact Sheets. Available from: <https://ods.od.nih.gov/factsheets/list-all/>
- NIH ODS. National Institutes of Health Office of Dietary Supplements. (2018b). *Vitamin B12: Fact Sheet for Health Professionals*. Available from: <https://ods.od.nih.gov/factsheets/VitaminB12-HealthProfessional/>

NIH ODS. National Institutes of Health Office of Dietary Supplements. (2019, 15 Jan). Niacin: Fact Sheet for Health Professionals. Available from: <https://ods.od.nih.gov/factsheets/Niacin-HealthProfessional/>

Nilsson, M., Norberg, B., Hultdin, J., Sandstrom, H., Westman, G., & Lokk, J. (2005). Medical intelligence in Sweden. Vitamin B12: oral compared with parenteral? *Postgraduate Medical Journal*, 81(953), 191-193. doi:10.1136/pgmj.2004.020057. Available from: <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1743228/pdf/v081p00191.pdf>

Nilsson, S. E., Read, S., Berg, S., & Johansson, B. (2009). Heritabilities for fifteen routine biochemical values: findings in 215 Swedish twin pairs 82 years of age or older. *Scandinavian Journal of Clinical and Laboratory Investigation*, 69(5), 562-569. doi:10.1080/00365510902814646. Available from: <http://informahealthcare.com/doi/abs/10.1080/00365510902814646>

Nishimoto, S., Tanaka, H., Okamoto, M., Okada, K., Murase, T., & Yoshikawa, H. (2015). Methylcobalamin promotes the differentiation of Schwann cells and remyelination in lysophosphatidylcholine-induced demyelination of the rat sciatic nerve. *Frontiers in Cellular Neuroscience*, 9, 298. doi:10.3389/fncel.2015.00298. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/26300733>; <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4523890/pdf/fncel-09-00298.pdf>

Nishizawa, Y., Yamamoto, T., Terada, N., Fushiki, S., & Matsumoto, K. (1997). Effects of methylcobalamin on the proliferation of androgen-sensitive or estrogen-sensitive malignant cells in culture and in vivo. *International Journal for Vitamin and Nutrition Research*, 67(3), 164-170. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/9202976>

NobelPrize.org. (2016). The Nobel Prize in Physiology or Medicine 1934. Available from: https://www.nobelprize.org/nobel_prizes/medicine/laureates/1934/

Ntaios, G., Savopoulos, C., Grekas, D., & Hatzitolios, A. (2009). The controversial role of B-vitamins in cardiovascular risk: An update. *Archives of Cardiovascular Diseases*, 102, 847-854. Available from: <https://www.sciencedirect.com/science/article/pii/S1875213609002411?via%3Dihub>

Nurk, E., Refsum, H., Drevon, C. A., Tell, G. S., Nygaard, H. A., Engedal, K., & Smith, A. D. (2010). Cognitive performance among the elderly in relation to the intake of plant foods. The Hordaland Health Study. *British Journal of Nutrition*, 104(8), 1190-1201. doi:10.1017/S0007114510001807. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/20550741>

O'Leary, F., & Samman, S. (2010). Vitamin B12 in health and disease. *Nutrients*, 2(3), 299-316. doi:10.3390/nu2030299. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/22254022>; <https://www.ncbi.nlm.nih.gov/pmc/PMC3257642/>

O'Neill, R. J., Vrana, P. B., & Rosenfeld, C. S. (2014). Maternal methyl supplemented diets and effects on offspring health. *Frontiers in Genetics*, 5, 289. doi:10.3389/fgene.2014.00289. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/25206362>; <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4143751/pdf/fgene-05-00289.pdf>

Obeid, R., Murphy, M., Sole-Navais, P., & Yajnik, C. (2017). Cobalamin Status from Pregnancy to Early Childhood: Lessons from Global Experience. *Advances in Nutrition*, 8(6), 971-979. doi:10.3945/an.117.015628. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29141978>; <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5683008/pdf/an015628.pdf>

Obeid, R., & Pietrzik, K. (2016). Re: Alison J. Price, Ruth C. Travis, Paul N. Appleby, et al. Circulating Folate and Vitamin B12 and Risk of Prostate Cancer: A Collaborative Analysis of Individual Participant

Data from Six Cohorts Including 6875 Cases and 8104 Controls. In press.
<http://dx.doi.org/10.1016/j.eururo.2016.03.029>: Serum Concentrations of Folate and Vitamin B12 and the Risk of Prostate Cancer According to Pooled Data: The Devil Is in the Detail. *European Urology*, 70(5), e133-e134. doi:10.1016/j.eururo.2016.05.024. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/27236495>; [http://www.europeanurology.com/article/S0302-2838\(16\)30188-9/pdf](http://www.europeanurology.com/article/S0302-2838(16)30188-9/pdf)

Olson, S. R., Deloughery, T. G., & Taylor, J. A. (2016). Time to Abandon the Serum Cobalamin Level for Diagnosing Vitamin B12 Deficiency. *Blood*, 128(22), 2447-2447. Available from: <http://www.bloodjournal.org/content/128/22/2447>

Oster, H., Challet, E., Ott, V., Arvat, E., Kloet, E. R. d., Dijk, D.-J., Lightman, S., Vgontzas, A., & Cauter, E. V. (2017). The Functional and Clinical Significance of the 24-Hour Rhythm of Circulating Glucocorticoids. *Endocrine Reviews*, 38(3-45). doi:10.1210/er.2015-1080. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/27749086>

Ott, W. H., Rickes, E. L., & Wood, T. R. (1948). Activity of crystalline vitamin B12 for chick growth. *Journal of Biological Chemistry*, 174(3), 1047. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/18871266>

Pacholok, S. M., & Stuart, J. J. (2011). *Could it be B12? : an epidemic of misdiagnoses* (2nd ed.). Fresno, Calif.: Quill Driver Books.

Pait, T. G., & Dowdy, J. T. (2017). John F. Kennedy's back: chronic pain, failed surgeries, and the story of its effects on his life and death. *Journal of Neurosurgery: Spine*, 27(3), 247-255. doi:10.3171/2017.2.SPINE151524. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/28693374>

Papierska, L., & Rabijewski, M. (2013). Delay in diagnosis of adrenal insufficiency is a frequent cause of adrenal crisis. *International Journal of Endocrinology*, 2013, 482370. doi:10.1155/2013/482370. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/23864857>; <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3707239/pdf/IJE2013-482370.pdf>

Parmanand, H. T. (2016). Marchiafava–Bignami disease in chronic alcoholic patient. *Radiology Case Reports*, 11(3), 234-237. doi:10.1016/j.radcr.2016.05.015. Available from: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4996925/>

Parr, B. (1819). *The London Medical Dictionary: Including, Under Distinct Heads, Every Branch of Medicine; Viz. Anatomy, Physiology, and Pathology, the Practice of Physic and Surgery, Therapeutics, and Materia Medica; with Whatever Relates to Medicine in Natural Philosophy, Chemistry, and Natural History* (Vol. II). London: Mitchell, Ames and White.

PAS. Pernicious Anaemia Society. (2018a). Diagnosing Vitamin B12 Deficiency and Pernicious Anaemia. Available from: <https://pernicious-anaemia-society.org/diagnosis/>

PAS. Pernicious Anaemia Society. (2018b). Patients FAQ. Available from: <https://pernicious-anaemia-society.org/faq/patients-faq/>

PAS. Pernicious Anaemia Society. (2018c). Pernicious Anaemia. Available from: <https://pernicious-anaemia-society.org/pernicious-anaemia/>

Pearce, J. M. (2004). Thomas Addison (1793-1860). *Journal of the Royal Society of Medicine*, 97(6), 297-300. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/15173338>; <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1079500/pdf/0970297.pdf>

Pearce, J. M. (2008). Subacute combined degeneration of the cord: Putnam-Dana syndrome. *European Neurology*, 60(1), 53-56. doi:10.1159/000131715. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/18520150>; <https://www.karger.com/Article/Pdf/131715>

Pender, M. P. (2012). CD8+ T-Cell Deficiency, Epstein-Barr Virus Infection, Vitamin D Deficiency, and Steps to Autoimmunity: A Unifying Hypothesis. *Autoimmune Diseases*, 2012, 189096. doi:10.1155/2012/189096. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/22312480>; <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3270541/pdf/AD2012-189096.pdf>

Piyathilake, C. J., Johanning, G. L., Macaluso, M., Whiteside, M., Oelschlager, D. K., Heimburger, D. C., & Grizzle, W. E. (2000). Localized folate and vitamin B-12 deficiency in squamous cell lung cancer is associated with global DNA hypomethylation. *Nutrition and Cancer*, 37(1), 99-107. Available from: http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=10965526

Pray, L. A. (2008). DNA Replication and Causes of Mutation. *Nature Education*, 1(1), 214. Available from: <https://www.nature.com/scitable/topicpage/DNA-Replication-and-Causes-of-Mutation-409>

Price, A. J., Travis, R. C., Appleby, P. N., Albanes, D., Barricarte Gurrea, A., Bjorge, T., Bueno-de-Mesquita, H. B., Chen, C., Donovan, J., Gislefoss, R., Goodman, G., Gunter, M., Hamdy, F. C., Johansson, M., King, I. B., Kuhn, T., Mannisto, S., Martin, R. M., Meyer, K., Neal, D. E., Neuhouser, M. L., Nygard, O., Stattin, P., Tell, G. S., Trichopoulou, A., Tumino, R., Ueland, P. M., Ulvik, A., de Vogel, S., Vollset, S. E., Weinstein, S. J., Key, T. J., & Allen, N. E. (2016). Circulating Folate and Vitamin B12 and Risk of Prostate Cancer: A Collaborative Analysis of Individual Participant Data from Six Cohorts Including 6875 Cases and 8104 Controls. *European Urology*, 70(6), 941-951. doi:10.1016/j.eururo.2016.03.029. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/27061263>; [http://www.europeanurology.com/article/S0302-2838\(16\)00379-1/pdf](http://www.europeanurology.com/article/S0302-2838(16)00379-1/pdf)

Priestley, A., & Cummings, A. (2016). "Can you stop my multiple sclerosis?" [Television series episode] Panorama. London: British Broadcasting Corporation.

PubChem Compound Database. Cobalamin CID=6438156, and Cobalamin CID=56840966. Available from: <https://pubchem.ncbi.nlm.nih.gov/compound/6438156> <https://pubchem.ncbi.nlm.nih.gov/compound/56840966>

Public Health England. (2016). *Government Dietary Recommendations: Government recommendations for energy and nutrients for males and females aged 1 – 18 years and 19+ years*. Available from: https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/618167/government_dietary_recommendations.pdf

Radowitz, J. v. (2016, 10 Jun 2016). Breakthrough treatment for Multiple Sclerosis found to reverse symptoms. *Independent*. Available from: <http://www.independent.co.uk/life-style/health-and-families/health-news/multiple-sclerosis-breakthrough-treatment-found-to-reverse-symptoms-a7073706.html>

Ray, J. G., & Blom, H. J. (2003). Vitamin B12 insufficiency and the risk of fetal neural tube defects. *QJM*, 96(4), 289-295. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/12651973>

Refsum, H. (2001). Folate, vitamin B12 and homocysteine in relation to birth defects and pregnancy outcome. *British Journal of Nutrition*, 85 Suppl 2, S109-113. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/11509098>

- Regland, B., Forsmark, S., Halaouate, L., Matousek, M., Peilot, B., Zachrisson, O., & Gottfries, C. G. (2015). Response to vitamin B12 and folic acid in myalgic encephalomyelitis and fibromyalgia. *PLoS One*, 10(4), e0124648. doi:10.1371/journal.pone.0124648. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/25902009>; <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4406448/pdf/pone.0124648.pdf>
- Reik, W. (2007). Stability and flexibility of epigenetic gene regulation in mammalian development. *Nature*, 447(7143), 425-432. doi:10.1038/nature05918. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/17522676>
- Reynolds, E. (2006). Vitamin B12, folic acid, and the nervous system. *Lancet Neurology*, 5(11), 949-960. doi:10.1016/S1474-4422(06)70598-1. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/17052662>; <http://www.sciencedirect.com/science/article/pii/S1474442206705981>
- Rickes, E. L., Brink, N. G., Koniuszy, F. R., Wood, T. R., & Folkers, K. (1948a). Comparative Data on Vitamin B12 From Liver and From a New Source, *Streptomyces griseus*. *Science*, 108(2814), 634-635. doi:10.1126/science.108.2814.634-a [pii]; 10.1126/science.108.2814.634-a. Available from: http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=17783357
- Rickes, E. L., Brink, N. G., Koniuszy, F. R., Wood, T. R., & Folkers, K. (1948b). Crystalline Vitamin B12. *Science*, 107(2781), 396-397. doi:10.1126/science.107.2781.396. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/17783930>; <http://www.sciencemag.org/content/107/2781/396>
- Rietsema, W. J. (2014). Active form of vitamin B12. *BMJ*, 349, g5226. doi:10.1136/bmj.g5226. Available from: <https://www.bmjjournals.org/content/349/bmj.g5226/rr/764190>
- Rizzo, G., Lagana, A. S., Rapisarda, A. M., La Ferrera, G. M., Buscema, M., Rossetti, P., Nigro, A., Muscia, V., Valenti, G., Sapia, F., Sarpietro, G., Zigarelli, M., & Vitale, S. G. (2016). Vitamin B12 among Vegetarians: Status, Assessment and Supplementation. *Nutrients*, 8(12). doi:10.3390/nu8120767. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/27916823>; https://res.mdpi.com/nutrients/nutrients-08-00767/article_deploy/nutrients-08-00767.pdf?filename=&attachment=1
- Robertson, K. D. (2005). DNA methylation and human disease. *Nature Reviews Genetics*, 6(8), 597-610. doi:10.1038/nrg1655. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/16136652>; <http://www.nature.com/articles/nrg1655>
- Roessler, F. C., & Wolff, S. (2017). Rapid healing of a patient with dramatic subacute combined degeneration of spinal cord: a case report. *BMC Research Notes*, 10(1), 18. doi:10.1186/s13104-016-2344-4. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/28057043>; https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5216536/pdf/13104_2016_Article_2344.pdf
- Rosenblatt, D. S., & Fowler, B. (2006). Disorders of Cobalamin and Folate Transport and Metabolism. In J. Fernandes, J.-M. Saudubray, G. v. d. Berghe, & J. H. Walter (Eds.), *Inborn Metabolic Diseases: Diagnosis and Treatment* (4 ed., pp. 341-356). Berlin, Heidelberg: Springer.
- Rothwell, P. M., & Charlton, D. (1998). High incidence and prevalence of multiple sclerosis in south east Scotland: evidence of a genetic predisposition. *Journal of Neurology, Neurosurgery and Psychiatry*, 64(6), 730-735. Available from: http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=9500000

[uids=9647300;](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC1290336/)
<http://www.ncbi.nlm.nih.gov/picrender.fcgi?artid=2170112&blobtype=pdf>

Rotter, D. (2005). Homocysteine and Vitamin B12. Available from: <https://www.b12-vitamin.com/homocysteine/>

Roze, E., Gervais, D., Demeret, S., Ogier de Baulny, H., Zittoun, J., Benoist, J.-F., Said, G., Pierrot-Deseilligny, C., & Bolgert, F. (2003). Neuropsychiatric Disturbances in Presumed Late-Onset Cobalamin C Disease. *Archives of Neurology*, 60(10), 1457-1462.
doi:10.1001/archneur.60.10.1457. Available from:
<https://jamanetwork.com/journals/jamaneurology/fullarticle/784788>

Russell, J. S. R., Batten, F. E., & Collier, J. (1900). Subacute Combined Degeneration of the Spinal Cord. *Brain*, 23, 39-110.

Sands, K. (2017, 28 Sept 2017). A 12-year-old boy died from Addison's disease after the chance of lifesaving treatment was 'missed'. *Wales Online*. Available from:
<https://www.walesonline.co.uk/news/wales-news/boy-died-addisons-disease-after-13687355>

Santarelli, L., Gabrielli, M., Cremonini, F., Santoliquido, A., Candelli, M., Nista, E. C., Pola, P., Gasbarrini, G., & Gasbarrini, A. (2004). Atrophic gastritis as a cause of hyperhomocysteinaemia. *Alimentary Pharmacology and Therapeutics*, 19(1), 107-111. Available from:
<https://www.ncbi.nlm.nih.gov/pubmed/14687172>

Sargis, R. M. (2015, 8 Apr 2015). An Overview of the Hypothalamus. Available from:
<https://www.endocrineweb.com/endocrinology/overview-hypothalamus>

Scalabrino, G. (2001). Subacute combined degeneration one century later. The neurotrophic action of cobalamin (vitamin B12) revisited. *Journal of Neuropathology and Experimental Neurology*, 60(2), 109-120. Available from: <https://academic.oup.com/jnen/article/60/2/109/2609890>

Scalabrino, G. (2005). Cobalamin (vitamin B(12)) in subacute combined degeneration and beyond: traditional interpretations and novel theories. *Experimental Neurology*, 192(2), 463-479.
doi:10.1016/j.expneurol.2004.12.020. Available from:
<http://www.sciencedirect.com/science/article/pii/S0014488604005382>

Scalabrino, G. (2009). The multi-faceted basis of vitamin B12 (cobalamin) neurotrophism in adult central nervous system: Lessons learned from its deficiency. *Progress in Neurobiology*, 88(3), 203-220.
doi:S0301-0082(09)00058-6 [pii]; 10.1016/j.pneurobio.2009.04.004. Available from:
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=19394404

Scalabrino, G., Lorenzini, E. C., Monzio-Compagnoni, B., Colombi, R. P., Chiodini, E., & Buccellato, F. R. (1995). Subacute combined degeneration in the spinal cords of totally gastrectomized rats. Ornithine decarboxylase induction, cobalamin status, and astrogliosis reaction. *Laboratory Investigation*, 72(1), 114-123. Available from:
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=7837784

Scalabrino, G., Mutti, E., Veber, D., Aloe, L., Corsi, M. M., Galbiati, S., & Tredici, G. (2006). Increased spinal cord NGF levels in rats with cobalamin (vitamin B12) deficiency. *Neuroscience Letters*, 396(2), 153-158. doi:S0304-3940(05)01314-5 [pii], 10.1016/j.neulet.2005.11.029. Available from:

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=16352395

Scalabrino, G., Veber, D., & Mutti, E. (2007). New pathogenesis of the cobalamin-deficient neuropathy. *Medicina Nei Secoli*, 19(1), 9-18. Available from:
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=18447164

Schernhammer, E., Wolpin, B., Rifai, N., Cochrane, B., Manson, J. A., Ma, J., Giovannucci, E., Thomson, C., Stampfer, M. J., & Fuchs, C. (2007). Plasma folate, vitamin B6, vitamin B12, and homocysteine and pancreatic cancer risk in four large cohorts. *Cancer Research*, 67(11), 5553-5560. doi:10.1158/0008-5472.CAN-06-4463. Available from:
<https://www.ncbi.nlm.nih.gov/pubmed/17545639>;
<http://cancerres.aacrjournals.org/content/canres/67/11/5553.full.pdf>

Schlaghecke, R., Kornely, E., Santen, R. T., & Ridderskamp, P. (1992). The Effect of Long-Term Glucocorticoid Therapy on Pituitary-Adrenal Responses to Exogenous Corticotropin-Releasing Hormone. *New England Journal of Medicine*, 326(4), 226-230. doi:10.1056/NEJM199201233260403. Available from:
<https://doi.org/10.1056/NEJM199201233260403>

Scott, J. M. (1999). Folate and vitamin B12. *Proceedings of the Nutrition Society*, 58(2), 441-448. doi:10.1017/S0029665199000580. Available from:
<https://www.cambridge.org/core/article/folate-and-vitamin-b12/93748DEBFA8ADFA72FAAE2DAF7C34AAA>

Scott, J. M., & Molloy, A. M. (2012). The discovery of vitamin B(12). *Annals of Nutrition and Metabolism*, 61(3), 239-245. doi:10.1159/000343114. Available from:
<https://www.ncbi.nlm.nih.gov/pubmed/23183296>;
<https://www.karger.com/Article/Abstract/343114>

Senmaru, T., Fukui, M., Tanaka, M., Kuroda, M., Yamazaki, M., Oda, Y., Naito, Y., Hasegawa, G., Toda, H., Yoshikawa, T., & Nakamura, N. (2012). Atrophic gastritis is associated with coronary artery disease. *Journal of Clinical Biochemistry and Nutrition*, 51(1), 39-41. doi:10.3164/jcbn.11-106. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/22798711>;
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3391861/pdf/jcbn-51-39.pdf>

Shane, B. (2008). Folate and vitamin B12 metabolism: overview and interaction with riboflavin, vitamin B6, and polymorphisms. *Food and Nutrition Bulletin*, 29(2 Suppl), S5-16; discussion S17-19. doi:10.1177/15648265080292S103. Available from:
<https://www.ncbi.nlm.nih.gov/pubmed/18709878>

Sharma, A., Gerbarg, P., Bottiglieri, T., Massoumi, L., Carpenter, L. L., Lavretsky, H., Muskin, P. R., Brown, R. P., Mischoulon, D., & as Work Group of the American Psychiatric Association Council on Research. (2017). S-Adenosylmethionine (SAMe) for Neuropsychiatric Disorders: A Clinician-Oriented Review of Research. *Journal of Clinical Psychiatry*, 78(6), e656-e667. doi:10.4088/JCP.16r11113. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/28682528>;
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5501081/pdf/nihms822867.pdf>

Sherman, S. I., & Gagel, R. F. (2005). Disorders affecting multiple endocrine systems. In D. L. Kasper, A. S. Fauci, D. L. Longo, E. Braunwald, S. L. Hauser, & J. L. Jameson (Eds.), *Harrison's Principles of Internal Medicine* (16 ed., Vol. I, pp. 2231-2238). New York: McGraw-Hill Medical.

- Shrubsole, M. J., Jin, F., Dai, Q., Shu, X. O., Potter, J. D., Hebert, J. R., Gao, Y. T., & Zheng, W. (2001). Dietary folate intake and breast cancer risk: results from the Shanghai Breast Cancer Study. *Cancer Research*, 61(19), 7136-7141. Available from:
<https://www.ncbi.nlm.nih.gov/pubmed/11585746>;
<http://cancerres.aacrjournals.org/content/canres/61/19/7136.full.pdf>
- Simon, C., Everitt, H., Dorp, F. v., & Burkes, M. (2014). *Oxford Handbook of General Practice* (4 ed.): Oxford Medical Handbooks.
- Simson, G., Herfort, A., Krim, M., & Meyer, L. M. (1950). Effects of vitamin B12 in multiple sclerosis. *Proceedings of the Society for Experimental Biology and Medicine*, 75(3), 721. Available from:
http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=14808380
- Sinclair, K. D., Allegrucci, C., Singh, R., Gardner, D. S., Sebastian, S., Bispham, J., Thurston, A., Huntley, J. F., Rees, W. D., Maloney, C. A., Lea, R. G., Craigon, J., McEvoy, T. G., & Young, L. E. (2007). DNA methylation, insulin resistance, and blood pressure in offspring determined by maternal periconceptional B vitamin and methionine status. *Proceedings of the National Academy of Sciences of the United States of America*, 104(49), 19351-19356. doi:10.1073/pnas.0707258104. Available from: <http://www.pnas.org/content/104/49/19351.full.pdf>
- Singh, N., Maturu, V. N., & Behera, D. (2015). Total Plasma Homocysteine Level Assessment and Timing of Folate/B12 Supplementation Prior to Initiation of Pemetrexed-Based Chemotherapy for Nonsquamous Non-Small Cell Lung Cancer Patients: An Irrelevant Investigation, an Unnecessary Delay, or Both? *Oncologist*, 20(7), e21. doi:10.1634/theoncologist.2015-0040. Available from:
<https://www.ncbi.nlm.nih.gov/pubmed/26069280>;
https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4492244/pdf/theoncologist_1540.pdf
- Singhal, D., & Berger, J. R. (2012). Detecting Multiple Sclerosis Mimics Early. *Future Neurology*, 7(5), 547-555. Available from: https://www.medscape.com/viewarticle/770971_1
- Smith, A. D. (1960). Megaloblastic Madness. *British Medical Journal*, 2(5216), 1840-1845. Available from:
<https://www.ncbi.nlm.nih.gov/pubmed/20789014>;
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2098604/pdf/brmedj03056-0030.pdf>
- Smith, A. D., de Jager, C. A., Refsum, H., & Rosenberg, I. H. (2015). Homocysteine lowering, B vitamins, and cognitive aging. *American Journal of Clinical Nutrition*, 101(2), 415-416. doi:10.3945/ajcn.114.098467. Available from:
<https://www.ncbi.nlm.nih.gov/pubmed/25646343>
- Smith, A. D., Kim, Y. I., & Refsum, H. (2008). Is folic acid good for everyone? *American Journal of Clinical Nutrition*, 87(3), 517-533. doi:10.1093/ajcn/87.3.517. Available from:
<http://ajcn.nutrition.org/content/87/3/517.pdf>;
<https://www.ncbi.nlm.nih.gov/pubmed/18326588>
- Smith, A. D., Refsum, H., Bottiglieri, T., Fenech, M., Hooshmand, B., McCaddon, A., Miller, J. W., Rosenberg, I. H., & Obeid, R. (2018). Homocysteine and Dementia: An International Consensus Statement. *Journal of Alzheimer's Disease*, 62(2), 561-570. doi:10.3233/JAD-171042. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29480200>;
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5836397/pdf/jad-62-jad171042.pdf>;
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5836397/pdf/jad-62-jad171042.pdf>

Smith, A. D., Refsum, H., & Jacoby, R. (2016). Evidence-based prevention and treatment of dementia. *Lancet Neurology*, 15(10), 1005-1006. doi:10.1016/S1474-4422(16)30074-6. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/27450472>

Smith, A. D., Smith, S. M., Jager, C. A. d., Whitbread, P., Johnston, C., Agacinski, G., Oulhaj, A., Bradley, K. M., Jacoby, R., & Refsum, H. (2010). Homocysteine-Lowering by B Vitamins Slows the Rate of Accelerated Brain Atrophy in Mild Cognitive Impairment: A Randomized Controlled Trial. *PloS One*, 5(9), 10. doi:10.1371/journal.pone.0012244. Available from: <http://www.plosone.org/article/info:doi%2F10.1371%2Fjournal.pone.0012244>

Smith, D. A., & Refsum, H. (2011). Do we need to reconsider the desirable blood level of vitamin b12? *Journal of Internal Medicine*, *epub*. doi:10.1111/j.1365-2796.2011.02485.x. .

Smith, E. L. (1948). Purification of anti-pernicious anaemia factors from liver. *Nature*, 161(4095), 638. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/18856623>

Smith, J., & Coman, D. (2014). Vitamin B12 Deficiency: an Update for the General Paediatrician. *Pediatrics & Therapeutics*, 4(1), 188-193. doi:10.4172/2161-0665.1000188. Available from: <https://pdfs.semanticscholar.org/338a/a8885db50cb2ae59af8448cda929faa3b947.pdf>

Smulders, Y. M., Smith, D. E., Kok, R. M., Teerlink, T., Swinkels, D. W., Stehouwer, C. D., & Jakobs, C. (2006). Cellular folate vitamer distribution during and after correction of vitamin B12 deficiency: a case for the methylfolate trap. *British Journal of Haematology*, 132(5), 623-629. doi:10.1111/j.1365-2141.2005.05913.x. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/16445837>; <https://onlinelibrary.wiley.com/doi/pdf/10.1111/j.1365-2141.2005.05913.x>

Sobotka, H., Christoff, N., & Baker, H. (1958). Elevated vitamin levels in cerebrospinal fluid in multiple sclerosis. *Proceedings of the Society for Experimental Biology and Medicine*, 98(3), 534-536. Available from: http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=13567762

Society for Endocrinology. (2018, January 2018). You and your Hormones: Adrenal glands. Available from: <http://www.yourhormones.info/glands/adrenal-glands/>

Solomon, L. R. (2007). Disorders of cobalamin (vitamin B12) metabolism: emerging concepts in pathophysiology, diagnosis and treatment. *Blood Reviews*, 21(3), 113-130. doi:S0268-960X(06)00039-7 [pii];10.1016/j.blre.2006.05.001. Available from: http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=16814909; [https://www.bloodreviews.com/article/S0268-960X\(06\)00039-7/fulltext](https://www.bloodreviews.com/article/S0268-960X(06)00039-7/fulltext); <http://home.kpn.nl/hindrikdejong/Solomon-B12-2006.pdf>

Specker, B. L., Black, A., Allen, L., & Morrow, F. (1990). Vitamin B-12: low milk concentrations are related to low serum concentrations in vegetarian women and to methylmalonic aciduria in their infants. *American Journal of Clinical Nutrition*, 52(6), 1073-1076.

Stichting Tekort. (2018). Treatment with high dose vitamin B12 been shown to be safe for more than 50 years. Available from: <https://stichtingb12tekort.nl/wetenschap/stichting-b12-tekort-artikelen/english/treatment-with-high-dose-vitamin-b12-been-shown-to-be-safe-for-more-than-50-years/>

Stubbe, J. (1994). Binding site revealed of nature's most beautiful cofactor. *Science*, 266, 1663+. Available from:

<http://link.galegroup.com/apps/doc/A15948819/AONE?u=googlescholar&sid=AONE&xid=10317fd6>

- Sugimura, T., Wakabayashi, K., Nakagama, H., & Nagao, M. (2004). Heterocyclic amines: Mutagens/carcinogens produced during cooking of meat and fish. *Cancer Science*, 95(4), 290-299. Available from: <https://onlinelibrary.wiley.com/doi/pdf/10.1111/j.1349-7006.2004.tb03205.x>
- Sukla, K. K., & Raman, R. (2012). Association of MTHFR and RFC1 gene polymorphism with hyperhomocysteinemia and its modulation by vitamin B12 and folic acid in an Indian population. *European Journal of Clinical Nutrition*, 66(1), 111-118. doi:10.1038/ejcn.2011.152. Available from: <http://www.nature.com/ejcn/journal/v66/n1/pdf/ejcn2011152a.pdf>
- Sun, N.-H., Huang, X.-Z., Wang, S.-B., Li, Y., Wang, L.-Y., Wang, H.-C., Zhang, C.-W., Zhang, C., Liu, H.-P., & Wang, Z.-N. (2016). A dose-response meta-analysis reveals an association between vitamin B12 and colorectal cancer risk. *Public Health Nutrition*, 19(8), 1446-1456. doi:10.1017/S136898001500261X. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/26373257>
- Surendran, S., Adaikalakoteswari, A., Saravanan, P., Shatwaan, I. A., Lovegrove, J. A., & Vimaleswaran, K. S. (2018). An update on vitamin B12-related gene polymorphisms and B12 status. *Genes & Nutrition*, 13, 2. doi:10.1186/s12263-018-0591-9. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29445423>; https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5801754/pdf/12263_2018_Article_591.pdf
- Takagi, Y., Hosomi, Y., Nagamata, M., Watanabe, K., Takahashi, S., Nakahara, Y., Yomota, M., Sunami, K., Okuma, Y., Shimokawa, T., & Okamura, T. (2016). Phase II study of oral vitamin B12 supplementation as an alternative to intramuscular injection for patients with non-small cell lung cancer undergoing pemetrexed therapy. *Cancer Chemotherapy and Pharmacology*, 77(3), 559-564. doi:10.1007/s00280-015-2954-x. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/26821156>; <http://link.springer.com/article/10.1007%2Fs00280-015-2954-x>
- Tamura, J., Kubota, K., Murakami, H., Sawamura, M., Matsushima, T., Tamura, T., Saitoh, T., Kurabayashi, H., & Naruse, T. (1999). Immunomodulation by vitamin B12: augmentation of CD8+ T lymphocytes and natural killer (NK) cell activity in vitamin B12-deficient patients by methyl-B12 treatment. *Clinical and Experimental Immunology*, 116(1), 28-32. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/10209501>; <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC1905232/pdf/cei0116-0028.pdf>
- Tanaka, T., Scheet, P., Giusti, B., Bandinelli, S., Piras, M. G., Usala, G., Lai, S., Mulas, A., Corsi, A. M., Vestrini, A., Sofi, F., Gori, A. M., Abbate, R., Guralnik, J., Singleton, A., Abecasis, G. R., Schlessinger, D., Uda, M., & Ferrucci, L. (2009). Genome-wide association study of vitamin B6, vitamin B12, folate, and homocysteine blood concentrations. *American Journal of Human Genetics*, 84(4), 477-482. doi:10.1016/j.ajhg.2009.02.011. Available from: http://pdn.sciencedirect.com/science?_ob=MiamiImageURL&_cid=276895&_user=10&_pii=S002929709000974&_check=y&_coverDate=2009-04-10&_view=c&_gw=y&wchp=dGlbVBA-zSkWz&md5=46489d2ddf8ebad41d7e9e2140fa11b2/1-s2.0-S002929709000974-main.pdf
- Taşkesen, M., Yaramış, A., Katar, S., Gözü_Pirinçcioğlu, A., & Söker, M. (2011). Neurological presentations of nutritional vitamin B12 deficiency in 42 breastfed infants in Southeast Turkey. *Turkish Journal of Medical Sciences*, 41(6), 1091-1096. doi:10.3906/sag-1009-1137. Available from: <https://journals.tubitak.gov.tr/medical/issues/sag-11-41-6/sag-41-6-20-1009-1137.pdf>

- Thompson, E. (2017). [Email to Dr Chandy: B12 pregnancy levels in each trimester].
- Thompson, M. D., Cole, D. E. C., & Ray, J. G. (2009). Vitamin B-12 and neural tube defects: the Canadian experience. *American Journal of Clinical Nutrition*, 89(2), 697S-701S. doi:10.3945/ajcn.2008.26947B. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/19116334>
- Tincani, A., Ceribelli, A., Cavazzana, I., Franceschini, F., Sulli, A., & Cutolo, M. (2008). Autoimmune Polyendocrine Syndromes. In Y. Shoenfeld, R. Cervera, & M. E. Gershwin (Eds.), *Diagnostic Criteria in Autoimmune Diseases* (10.1007/978-1-60327-285-8_50pp. 265-269): Humana Press.
- Toft, D. J., & Spinasanta, S. (2016). Addison's Disease and Adrenal Insufficiency Overview: What is Addison's disease? What are the symptoms? *EndocrineWeb*. Available from: <https://www.endocrineweb.com/conditions/addisons-disease/addison-disease-adrenal-insufficiency-overview>
- Tsiminis, G., Schartner, E. P., Brooks, J. L., & Hutchinson, M. R. (2016). Measuring and tracking vitamin B12: A review of current methods with a focus on optical spectroscopy. *Applied Spectroscopy Reviews*, 52(5). doi:10.1080/05704928.2016.1229325. Available from: <https://www.tandfonline.com/doi/full/10.1080/05704928.2016.1229325>
- Tucker, K. L., Rich, S., Rosenberg, I., Jacques, P., Dallal, G., Wilson, P. W. F., & Selhub, J. (2000). Plasma vitamin B-12 concentrations relate to intake source in the Framingham Offspring Study. *American Journal of Clinical Nutrition*, 71(2), 514-522. doi:10.1093/ajcn/71.2.514. Available from: <https://academic.oup.com/ajcn/article/71/2/514/4729184>
- Turner, M. R., & Talbot, K. (2009). Functional vitamin B12 deficiency. *Practical Neurology*, 9(1), 37-41. doi:9/1/37 [pii]; 10.1136/jnnp.2008.161968. Available from: http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=19151237
- Ueland, P. M., Refsum, H., Beresford, S. A., & Vollset, S. E. (2000). The controversy over homocysteine and cardiovascular risk. *American Journal of Clinical Nutrition*, 72, 324-332. doi:10.1093/ajcn/72.2.324. Available from: <https://academic.oup.com/ajcn/article/72/2/324/4729375>
- Ulrich, A., Muller, D., Linnebank, M., & Tarnutzer, A. A. (2015). Pitfalls in the diagnostic evaluation of subacute combined degeneration. *BMJ Case Reports*, 2015. doi:10.1136/bcr-2014-208622. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/25976195>; <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4434358/pdf/bcr-2014-208622.pdf>
- Ulrich, C. M. (2007). Folate and cancer prevention: a closer look at a complex picture. *American Journal of Clinical Nutrition*, 86(2), 271-273. doi:10.1093/ajcn/86.2.271. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/17684194>
- University of Kent. (2012). Vitamin variants could combat cancer as scientists unravel B12 secrets. *Phys.org [online]*. Oct 8 2012. Available from: <https://phys.org/news/2012-10-vitamin-variants-combat-cancer-scientists.html#nRlv>
- Vaidya, B., Chakera, A. J., & Dick, C. (2009). Addison's disease. *BMJ*, 339, b2385. doi:10.1136/bmj.b2385. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/19574315>
- Valdes-Ramos, R., Guadarrama-Lopez, A. L., Martinez-Carrillo, B. E., & Benitez-Arciniega, A. D. (2015). Vitamins and type 2 diabetes mellitus. *Endocrine, Metabolic & Immune Disorders Drug Targets*,

15(1), 54-63. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/25388747>; <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4435229/pdf/EMIDDT-15-54.pdf>

Van den Driessche, A., Eenkhoorn, V., Van Gaal, L., & De Block, C. (2009). Type 1 diabetes and autoimmune polyglandular syndrome: a clinical review. *Netherlands Journal of Medicine*, 67(11), 376-387. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/20009114>

Vannella, L., Lahner, E., Osborn, J., & Annibale, B. (2013). Systematic review: gastric cancer incidence in pernicious anaemia. *Alimentary Pharmacology and Therapeutics*, 37(4), 375-382. doi:10.1111/apt.12177. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/23216458>; <https://onlinelibrary.wiley.com/doi/pdf/10.1111/apt.12177>

Varela-Moreiras, G., Murphy, M. M., & Scott, J. M. (2009). Cobalamin, folic acid, and homocysteine. *Nutrition Reviews*, 67, S69-72. doi:10.1111/j.1753-4887.2009.00163.x. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/19453682>; https://academic.oup.com/nutritionreviews/article-abstract/67/suppl_1/S69/1873436?redirectedFrom=fulltext; https://academic.oup.com/nutritionreviews/article-abstract/67/suppl_1/S69/1873436?redirectedFrom=fulltext

Varela-Rey, M., Iruarrizaga-Lejarreta, M., Lozano, J. J., Aransay, A. M., Fernandez, A. F., Lavin, J. L., Mosen-Ansorena, D., Berdasco, M., Turmaine, M., Luka, Z., Wagner, C., Lu, S. C., Esteller, M., Mirsky, R., Jessen, K. R., Fraga, M. F., Martinez-Chantar, M. L., Mato, J. M., & Woodhoo, A. (2014). S-adenosylmethionine levels regulate the schwann cell DNA methylome. *Neuron*, 81(5), 1024-1039. doi:10.1016/j.neuron.2014.01.037. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/24607226>; [https://www.cell.com/neuron/pdf/S0896-6273\(14\)00068-3.pdf](https://www.cell.com/neuron/pdf/S0896-6273(14)00068-3.pdf)

Veit, K. (2017). Pseudothrombotic microangiopathy and vitamin B12 deficiency in pernicious anemia. *Proceedings (Baylor University. Medical Center)*, 30(3), 346-347. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/28670082>; <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5468040/pdf/bumc0030-0346.pdf>

Verkleij-Hagoort, A. C., Verlinde, M., Ursem, N. T., Lindemans, J., Helbing, W. A., Ottenkamp, J., Siebel, F. M., Gittenberger-de Groot, A. C., de Jonge, R., Bartelings, M. M., Steegers, E. A., & Steegers-Theunissen, R. P. (2006). Maternal hyperhomocysteinaemia is a risk factor for congenital heart disease. *BJOG: An International Journal of Obstetrics and Gynaecology*, 113(12), 1412-1418. doi:10.1111/j.1471-0528.2006.01109.x. Available from: <http://onlinelibrary.wiley.com/store/10.1111/j.1471-0528.2006.01109.x/asset/j.1471-0528.2006.01109.x.pdf?v=1&t=hhhg1i3v&s=7bdcc053118082ba87fe306aa02b7eb83c0c324d>

Viswanathan, A., & Greenberg, S. M. (2011). Cerebral Amyloid Angiopathy in the Elderly. *Annals of Neurology*, 70(6), 871-880. doi:10.1002/ana.22516. Available from: http://onlinelibrary.wiley.com/store/10.1002/ana.22516/asset/22516_ftp.pdf?v=1&t=j5rysjuas=38d556f7406aa186d81db9476202d1b1707431e4

Volkov, I. (2008). The master key effect of vitamin B12 in treatment of malignancy--a potential therapy? *Medical Hypotheses*, 70(2), 324-328. doi:10.1016/j.mehy.2007.05.029. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/17640826>

Wailoo, K. (1997). The Corporate "Conquest" of Pernicious Anemia: technology, blood researchers, and the consumer. In M. D. Baltimore (Ed.), *Drawing blood technology and disease identity in twentieth-century America* (pp. 99-133). Baltimore & London: Johns Hopkins University Press.

- Walker, C. L., & Ho, S.-m. (2012). Developmental reprogramming of cancer susceptibility. *Nature Reviews: Cancer*, 12(7), 479-486. doi:10.1038/nrc3220. Available from:
<https://www.ncbi.nlm.nih.gov/pubmed/22695395>;
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3820510/pdf/nihms481534.pdf>
- Wanjek, C. (2016, 10 Feb 2016). Low B12 Seen in Aging, Autism and Schizophrenia. *Live Science, Health*. Available from: <https://www.livescience.com/53675-vitamin-b12-aging-autism-schizophrenia.html>
- Wass, J. (2012). How to avoid precipitating an acute adrenal crisis. *BMJ*, 345, e6333. doi:10.1136/bmj.e6333. Available from: <http://www.bmj.com/content/345/bmj.e6333.full>;
<http://www.bmj.com/content/345/bmj.e6333.long>
- Watanabe, F., Yabuta, Y., Bito, T., & Teng, F. (2014). Vitamin B12-containing plant food sources for vegetarians. *Nutrients*, 6(5), 1861-1873. doi:10.3390/nu6051861. Available from:
<https://www.ncbi.nlm.nih.gov/pubmed/24803097>; https://res.mdpi.com/nutrients/nutrients-06-01861/article_deploy/nutrients-06-01861.pdf?filename=&attachment=1
- WCRF, & AICR. World Cancer Research Fund and American Institute for Cancer Research. (2007). *Food, Nutrition, Physical Activity, and the Prevention of Cancer: a Global Perspective*. Available from: http://www.aicr.org/assets/docs/pdf/reports/Second_Expert_Report.pdf
- Welch, M. (2006, 14 Feb 2006). New Discovery?: High Cortisol Binding Globuli as cause of Addison's? Available from: http://www.addisons-network.co.uk/high_cbg_ad.html
- Welch, R. G. (1957). Addison's disease in a nine-year-old girl. *British Medical Journal*, 1(5025), 980-982. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/13413266>;
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC1973322/pdf/brmedj03152-0036.pdf>
- WHO. World Health Organisation. (2017, 17 Dec). Dementia: Key Facts. Available from: <http://www.who.int/news-room/fact-sheets/detail/dementia>
- Wickramasinghe, S. N., & Fida, S. (1994). Bone marrow cells from vitamin B12- and folate-deficient patients misincorporate uracil into DNA. *Blood*, 83(6), 1656-1661. Available from:
<https://www.ncbi.nlm.nih.gov/pubmed/8123857>;
<http://www.bloodjournal.org/content/bloodjournal/83/6/1656.full.pdf>
- Wong, C. W. (2015). Vitamin B12 deficiency in the elderly: is it worth screening? *Hong Kong Medical Journal. Xianggang Yi Xue Za Zhi*, 21, 155-164. doi:10.12809/hkmj144383. Available from: <https://www.hkmj.org/abstracts/v21n2/155.htm>
- Wotton, C. J., & Goldacre, M. J. (2017). Associations between specific autoimmune diseases and subsequent dementia: retrospective record-linkage cohort study, UK. *Journal of Epidemiology and Community Health*, 71(6), 576-583. doi:10.1136/jech-2016-207809. Available from: <http://jech.bmjjournals.org/content/71/6/576.long>
- Wu, G., Bazer, F. W., Cudd, T. A., Meininger, C. J., & Spencer, T. E. (2004). Maternal nutrition and fetal development. *Journal of Nutrition*, 134(9), 2169-2172. doi:10.1093/jn/134.9.2169. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/15333699>
- Yang, D., Baumgartner, R. N., Slattery, M. L., Wang, C., Giuliano, A. R., Murtaugh, M. A., Risendal, B. C., Byers, T., & Baumgartner, K. B. (2013). Dietary intake of folate, B-vitamins and methionine and breast cancer risk among Hispanic and non-Hispanic white women. *PloS One*, 8(2), e54495.

doi:10.1371/journal.pone.0054495. Available from:

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3569453/pdf/pone.0054495.pdf>

Yang, T.-Y., Chang, G.-C., Hsu, S.-L., Huang, Y.-R., Chiu, L.-Y., & Sheu, G.-T. (2013). Effect of folic acid and vitamin B12 on pemetrexed antifolate chemotherapy in nutrient lung cancer cells. *BioMed Research International*, 2013, 389046. doi:10.1155/2013/389046. Available from:
<https://www.ncbi.nlm.nih.gov/pubmed/23984356>;
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3747471/pdf/BMRI2013-389046.pdf>

Zhang, N. (2015). Epigenetic modulation of DNA methylation by nutrition and its mechanisms in animals. *Animal Nutrition*, 1(3), 144-151. doi:10.1016/j.aninu.2015.09.002. Available from:
<https://www.ncbi.nlm.nih.gov/pubmed/29767106>;
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5945948/pdf/main.pdf>

Zhang, Y., Hodgson, N. W., Trivedi, M. S., Abdolmaleky, H. M., Fournier, M., Cuenod, M., Do, K. Q., & Deth, R. C. (2016). Decreased Brain Levels of Vitamin B12 in Aging, Autism and Schizophrenia. *PloS One*, 11(1), e0146797. doi:10.1371/journal.pone.0146797. Available from:
<https://www.ncbi.nlm.nih.gov/pubmed/26799654>;
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4723262/pdf/pone.0146797.pdf>

Zhao, L., Wei, Y., Song, A., & Li, Y. (2016). Association study between genome-wide significant variants of vitamin B12 metabolism and gastric cancer in a han Chinese population. *IUBMB Life (International Union of Biochemistry and Molecular Biology)*, 68(4), 303-310. doi:10.1002/iub.1485. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/26959381>;
<http://onlinelibrary.wiley.com/store/10.1002/iub.1485/asset/iub1485.pdf?v=1&t=j1mo562y&s=48f376a0bd67d16f67f33e9cfac99f0358389d06>

Zittan, E., Preis, M., Asmir, I., Cassel, A., Lindenfeld, N., Alroy, S., Halon, D. A., Lewis, B. S., Shiran, A., Schliamser, J. E., & Flugelman, M. Y. (2007). High frequency of vitamin B12 deficiency in asymptomatic individuals homozygous to MTHFR C677T mutation is associated with endothelial dysfunction and homocysteinemia. *American Journal of Physiology: Heart and Circulatory Physiology*, 293(1), H860-865. doi:10.1152/ajpheart.01189.2006. Available from:
<http://ajpheart.physiology.org/content/293/1/H860.full.pdf>

Zulfiqar, A. A., & Andrès, E. (2017). Association pernicious anemia and autoimmune polyendocrinopathy: a retrospective study. *Journal of Medicine and Life*, 10(4), 250-253. Available from:
<https://www.ncbi.nlm.nih.gov/pubmed/29362601>

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