

1. JEN, M.; YAN, A.C. Syndromes associated with nutritional deficiency and excess. **Clin Dermatol**; 28: 669-685, 2010.
2. SHAPIRO, J. Clinical practice: Hair loss in women. **N Engle J Med**; 357:1620-1630, 2007.
3. RUSHTON, D.H.; NORRIS, M.J.; DOVER, R. et al. Causes of hair loss and the developments in hair rejuvenation. **Int J Cosmet Sci**; 24:17-23, 2002.
4. D'AGOSTINI, F.; FIALLO, P.; PENNISI, T.M. et al. Chemoprevention of smoke-induced alopecia in mice by oral administration of L-cystine and vitamin B6. **J Dermatol Sci**; 46(3):189-98, 2007.
5. JAMES, M.J.; GIBSON, R.A.; CLELAND, L.G. Dietary polyunsaturated fatty acids and inflammatory mediator production. **Am J Clin Nutr**; 71 (1 Suppl): 343S-348S, 2000.
6. WLAZLAK, E.; SURKONT, G.; DUNICZ-SOKOLOWSKA, A. et al. Analysis of calcium concentration in perimenopausal women hair. **Prz Menopauzalny**; 1:51-54, 2007.
7. GOLUCH-KONIUSZY, Z.S. Nutrition of women with hair loss problem during the period of menopause. **Prz Menopauzalny**; 15(1):56-61, 2016.
8. LEIDY, H.J.; CLIFTON, P.M.; ASTRUP, A. et al. The role of protein in weight loss and maintenance. **Am J Clin Nutr**; 101(6): 1320S-1329S, 2015.
9. KREIDER, R.B.; RASMUSSEN, C.; KERKSICK, C.M. et al. A carbohydrate-restricted diet during resistance training promotes more favorable changes in body composition and markers of health in obese women with and without insulin resistance. **Phys Sportsmed**; 39(2):27-40, 2011.
10. CHIRICOZZI, A.; RAIMONDO, A.; LEMBO, S. et al. Crosstalk between skin inflammation and adipose tissue-derived products: pathogenic evidence linking psoriasis to increased adiposity. **Expert Rev Clin Immunol**; DOI:10.1080/1744666X.2016.1201423, 2016.
11. ALEMEIDA, M.D.L.C.; SUAREZ SERRANO, C.; REBOLLO ROLDÁN, J. et al. Cellulite's aetiology: a review. **J Eur Acad Dermatol Venereol**; 27(3):273-8, 2013.
12. MADANI, Z.; LOUCHAMI, K.; SENER, A. et al. Dietary sardine protein lowers insulin resistance, leptin and TNF- α and beneficially affects adipose tissue oxidative stress in rats with fructose-induced metabolic syndrome. **Int J Mol Med**; 29(3): 311-8, 2012.
13. MADANI, Z.; SENER, A.; MALEISSE, W.J. et al. Sardine protein diet increases plasma glucagon-like peptide-1 levels and prevents tissue oxidative stress in rats fed a high-fructose diet. **Mol Med Rep**; 12(5): 7017-26, 2015.
14. BENAICHETA, N.; LABBACI, F.Z.; BOUCHENAK, M. et al. Effect of sardine proteins on hyperglycaemia, hyperlipidaemia and lecithin: cholesterol acyltransferase activity in high-fat-diet-induced type 2 diabetic rats. **Br J Nutr**; 115(1):6-13, 2016.
15. COLLIN, C.; GAUTIER, B.; GAILLARD, O. et al. Protective effects of taurine on human hair follicle grown invitro. **Int J Cosmet Sci**; 28(4):289-98, 2006.
16. KIM, H.; CHANG, H.; LEE, D.H. Simulative evaluation of taurine against alopecia caused by stress in *Carnorhabditis elegans*. **Adv Exp Med Biol**; 776:267-76, 2013.
17. SHIRAI, N.; TERAYAMA, M.; TAKEDA, H. et al. Effects of season on the fatty acid composition and free amino acid content of the sardine *Sardinops melanostictus*. **Comparative Biochemistry and Physiology Part B**; 131 (2002):387-393, 2002.
18. PROKOPIEVA, V.D.; YARYGINA, E.G.; BOKHAN, N.A. et al. Use of Carnosine for oxidative stress reduction in different pathologies. **Oxid Med Cell Longev**; 2016:2939087. doi: 10.1155/2016/2939087, 2016.
19. BELVIRANLI, M.; OKUDAN, N.; REVAN, S. Repeated supramaximal exercise-induced oxidative stress: effect of Beta- Alanine plus creatine supplementation. **Asian J Sports Med**; 7(1): e26843, 2016.
20. BLANCQUAERT, L.; BABA, S.P.; KWIATKOWSKI, S. et al. Carnosine and anserine homeostasis in skeletal muscle and heart is controlled by beta-alanine transamination. **J Physiol**; doi: 10.1113/JP272050, 2016.
21. BLACK, H.S.; RHODES, L.E. Potential benefits of Omega-3 fatty acids in non-melanoma skin cancer. **J Clin Med**; 5(2): pii: E23, 2016
22. REESE, I.; WERFEL, T. Do long-chain omega-3 fatty acids protect from atopic dermatitis? **J Dtsch Dermatol Ges**; 13(9):897-85, 2015.
23. GRUBER, F.; ORNELAS, C.M.; KARNER, S. et al. Nrf2 deficiency causes lipid oxidation, inflammation, and matrix-protease expression in DHA-supplemented and UVA-irradiated skin fibroblasts. **Free Radic Biol Med**; 88(Pt B): 439-51, 2015.
24. KENDALL, A.C.; PILKINGTON, S.M.; MASSEY, K.A. et al. Distribution of bioactive lipid mediators in human skin. **J Invest Dermatol**; 135(6):1510-20, 2015.
25. HAITZ, K.A.; ANANDASABAPATHY, N. Docosahexaenoic acid alleviates atopic dermatitis in mice by generating T regulatory cells and m2 macrophages. **J Invest Dermatol**; 135 (6): 1472-4, 2015.
26. WEISE, C.; ERNST, D.; VAN TOL, E.A. et al. Dietary polyunsaturated fatty acids and non-digestible oligosaccharides reduce dermatitis in mice. **Pediatr Allergy Immunol**; 24(4):361-7, 2013.
27. BALCOS, M.C.; KIM, S.Y.; JEONG, H.S. et al. Docosahexaenoic acid inhibits melanin synthesis in murine melanoma cells in vitro through increasing tyrosinase degradation. **Acta Pharmacol Sin**; 35(4):489-95, 2014.

28. NIKOLAKOPOULOU, Z.; SHAIKH, M.H.; DEHLAWI, H. et al. The induction of apoptosis in pre-malignant keratinocytes by omega-3 polyunsaturated fatty acids docosahexaenoic acid (DHA) and eicosapentaenoic acid (EPA) is inhibited by albumin. **Toxicol Lett**; 218(2):150-8, 2013.
29. NOEL, S.E.; STONEHAM, A.C.; OLSEN, C.M. et al. Consumption of omega 3 fatty acids and the risk of skin cancers: a systematic review and meta-analysis. **Int J Cancer**; 135(1):149-56, 2014.
30. MILLSOP, J.W.; BHATIA, B.K.; DEBBANEH, M. et al. Diet and psoriasis, part III: role of nutritional supplements. **J Am Acad Dermatol**; 71(3):561-9, 2014.
31. PILKINGTON, S.M.; RHODES, L.E.; AL-AASSWAD, N.M. et al. Impact of EPA ingestion on COX- and LOXmediates eicosanoid synthesis in skin with and without a pro-inflammatory UVR challenge- report of a randomized controlled study in humans. **Mol Nutr Food Res**; 58(3):580-90, 2014.
32. PILKINGTON, S.M.; MASSEY, K.A.; BENNETT, S.P. et al. Randomized controlled trial of oral omega-3 PUFA in solar-simulated radiation-induced suppression of human cutaneous immune responses. **Am J Clin Nutr**; 97(3):646-52, 2013.
33. KIM, E.J.; KIM, M.K.; JIN, X.J. et al. Skin aging and photoaging alter fatty acids composition, including 11,14, 17-eicosatrienoic acid, in the epidermis of human skin. **J Korean Med Sci**; 25(6): 980-3, 2010.
34. LATREILLE, J.; KESSE-GUYOT, E.; MALVY, D. et al. Association between dietary intake of n-3 polyunsaturated fatty acids and severity of skin photoaging in a middle-aged Caucasian population. **J Dermatol Sci**; 72(3):233-9, 2013.
35. LE FLOCH, C.; CHENITI, A.; CONNÉTABLE, S. et al. Effect of a nutritional supplement on hair loss in women. **J Cosmet Dermatol**; 14(1):76-82, 2015.
36. EL FÉKIH, N.; KOMOUN, H.; FAZAA, B. et al. Evaluation of the role of dietary intake in the occurrence of alopecia. **Rev Med Liege**; 65(2):98-102, 2010.
37. MARTINEZ-FERNÁNDEZ, L.; LAIGLESIA, L.M.; HUERTA, A.E. et al. Omega-3 fatty acids and adipose tissue function in obesity and metabolic syndrome. **Prostaglandins Other Lipid Mediat**; 121(Pt A): 24-41, 2015.
38. BENDER, N.; PORTMANN, M.; HEG, Z. et al. Fish or n3-PUFA intake and body composition: a systematic review and meta-analysis. **Obes Res**; 15(8): 657-65, 2014.
39. HUERTA, A.E. NAVAS-CARRETERO, S.; PRIETO-HONTORIA, P.L. et al. Effects of alfa-lipoic acid and eicosapentaenoic acid in overweight and obese women during weight loss. **Obesity**; 23(2): 313-21, 2015.
40. BARIL-GRAVEL, L.; LABONTÉ, M.E.; COUTURE, P. et al. Docosahexaenoic acid-enriched canola oil increases adiponectin concentrations: a randomized crossover controlled intervention trial. **Nutr Metab Cardiovasc Dis**; 25(1): 52-9,2015.
41. SU, H.Y.; LEE, H.C.; CHENG, W.Y. et al. A calorie-restriction diet supplemented with fish oil and high-protein powder is associated with reduces severity of metabolic syndrome in obese women. **Eur J Clin Nutr**; 69(3): 322-8, 2015.
42. GUPTA, A.; MARCH, L. Treating osteoporosis. **Aust Prescr**; 39(2):40-60, 2016
43. WEAVER, C.M.; ALEXANDER, D.D.; BOUSHEY, C.J. et al. Calcium plus vitamin D supplementation and risk of fractures: an update meta-analysis from the National Osteoporosis Foundation. **Osteoporos Int**; 27(1): 367-76, 2016.
44. OHGITANI, S.; FUJITA, T.; FUJII, Y. et al. Nail calcium and magnesium content in relation to age and bone mineral density. **J Bone Miner Metab**; 23(4):318-22, 2005.
45. TAKIZAWA, T.; TAKIZAWA, T.; ARAI, S. et al. Ultrastructural localization of S100A3, a cysteine-rich, calcium binding protein, in human scalp hair shafts revealed by rapid freezing immunocytochemistry. **J Histochem Cytochem**; 47(4):525-32, 1999.
46. KIZAWA, K.; UCHIWA, H.; MURAKAMI, U. Highly-expressed S100A3, a calcium-binding protein, in human hair cuticle. **Biochim Biophys Acta**; 1312(2): 94-8,1996.
47. OHGITANI, S.; FUJITA, T.; FUJII, Y. et al. Nail calcium content in relation to age and bone mineral density. **Clin Calcium**; 18(7):959-66, 2008.
48. MADY, L.J.; AJIBADE, D.V.; HSAIO, C. et al. The transient role for calcium and vitamin D during the developmental hair follicle cycle. **J Invest Dermatol**; 136(7):1337-45, 2016.
49. ROH, C.; TAO, Q.; LYLE, S. Dermal papilla-induced hair differentiation of adult epithelial stem cells from human skin. **Physiol Genomics**; 19(2):207-17, 2004.
50. IOSUB, R.; AVITABLE, D.; GRANT, L. et al. Calcium-induced calcium release during potential firing in developing inner hair cells. **Biophys J**; 108(5):1003-12, 2015.
51. GANZ, T.; NEMETH, E. Iron balance and the role of hepcidin in Chronic kidney disease. **Semin Nephrol**; 36(2):87-93, 2016.
52. HINTZE, K.J.; SNOW, D.; NABOR, D. et al. Adipocyte hypoxia increases hepatocyte hepcidin expression. **Biol Trace Elem Res**; 143(2):764-71, 2011.
53. CHEN, Y.; YIN, H.Q.; LIU, H.L. et al. Hepcidin and iron metabolism in non-diabetic obese and type 2 diabetic rats. **J Huazhong Univ Sci Technolog Med Sci**; 35(6):851-7, 2015.
54. LEMOS, A. dos R.; ISMAEL, L.A.S.; BOATO, C.C.M. et al. A hepcidina como parâmetro bioquímico na avaliação da anemia por deficiência de ferro. **Rev Assoc Med Bras**; 56(5):596-9, 2010.
55. TROST, A.B.; BERGFELD, W.F.; CALOGERAS, E. The diagnosis and treatment of iron deficiency and its potential relationship to hair loss. **J Am Acad Dermatol**; 54(5):824-44, 2006.
56. PARK, S.Y.; NA, S.Y.; KIM, J.H. et al. Iron plays a certain role in patterned hair loss. **J Korean Med Sci**; 28(6):934-8, 2013.

59. OLSEN, E.A. Female pattern hair loss. **J Am Acad Dermatol**; 45(3 suppl): S70-80, 2001.
60. BANSAL, D. Iron deficiency in India. **Indian J Pediatr**; 83(7):615-6, 2016.
61. MORISSET, A.S.; WEILER, H.A.; DUBOIS, L. et al. Rankings of iron, vitamin D, and calcium intakes in relation to maternal characteristics of pregnant Canadian women. **Appl Physiol Nutr Metab**; 11:1-9, 2016.
62. RUSHTON, D.H.; NORRIS, M.J.; DOVER, R. et al. Causes of hair loss and the developments in hair rejuvenation. **Int J Cosmet Sci**; 24:17-23, 2002.
63. MARQUES, N.C. et al. Does a controlled diet improve cellulite? **Int J Nutr**; 2(1): 25-37, 2016.
64. KUCHARSKA, A.; SZMURŁO, A.; SIŃSKA, B. Significance of diet in treated and untreated acne vulgaris. **Postepy Dermatol Alergol**; 33(2): 81-6, 2016.
65. LE FLOCH, C.; CHENITI, A.; CONNETABLE, S.; et al. Effect of a nutritional supplement on hair loss in women. **J Cosmet Dermatol**; 14(1): 76-82, 2015.
66. SHAB-BIDAR, S.; NEYESTANI, T.R.; DJAZAYERI, A. et al. The interactive effect of improvement of vitamin D status and VDR FokI variants on oxidative stress in type 2 diabetic subjects: a randomized controlled trial. **Eur J Clin Nutr**; 69(2):216-22, 2015.
67. BERRIDGE, M.J. Vitamin D cell signaling in health and disease. **Biochem Biophys Res Commun**; 460(1):53-71, 2015.
68. LIM, S.K.; et al. Comparison of Vitamin D Levels in Patients with and without Acne: A Case-Control Study Combined with a Randomized Controlled Trial. **PLoS One**; 11 (8): e0161162, 2016.
69. LEE, W.J.; et al. Effect of Vitamin D on the Expression of Inflammatory Biomarkers in Cultured Sebocytes Treated with Propionibacterium acnes or Ultraviolet B Irradiation. **Ann Dermatol**; 28(5):665-669, 2016.
70. BAKRY, O.A.; et al. Serum Vitamin D in patients with alopecia areata. **Indian Dermatol Online J**; 7(5):371-377, 2016.
71. MCGUIRE, J.; et al. The 2014 FDA assessment of commercial fish: practical considerations for improved dietary guidance. **Nutr J**; 15(1):66, 2016.
72. ALTINTERIM, B. The effect of respiratory chain of CoQ10. **Sakaryamj**; 3(2): 51-54, 2013.
73. MIYAMAE, T.; SEKI, M.; NAGA, T. et al. Increased oxidative stress and coenzyme Q 10 deficiency in juvenile fibromyalgia: amelioration of hypercholesterolemia and fatigue by ubiquinol-10 supplementation. **Redox Rep**; 18(1):12-9, 2013.
74. MIZUNO, K.; TANAKA, M.; NOZABI, S. et al. Antifatigue effects of coenzyme Q10 during physical fatigue. **Nutrition**; 24(4):293-9, 2008.
75. BALCERZUK, A.; GAJAWSKA, A.; MACIERZYNSKA-PIOTROWSKA, E. et al. Enhanced antioxidant capacity and anti-ageing biomarkers after diet micronutrient supplementation. **Molecules**; 19(9):14794-808, 2014.
76. MOAZEN, M.; MAZLOOM, Z. AHMADI, A. et al. Effect of coenzyme Q10 on glycaemic control, oxidative stress and adiponectin in type 2 diabetes. **J Pak Med Assoc**; 65(4):404-8, 2015.
77. YANG, H.L.; LIN, M.W.; KORIVI, M. et al. Coenzyme Q10 regulates NFkB/AP-1 activation and enhances NRF2 stabilization in attenuation of LPS-induced inflammation and redox imbalance: evidence from in vitro and in vivo studies. **Biochim Biophys Acta**; 1859(2):246-61, 2016.
78. KAMEI, M.; FUJITA, T.; SASAKI, K. et al. The distribution and content of ubiquinone in foods. **Int J Vit Nutr Res**; 56: 57-63, 1986.
79. BOREKOVÁ, M.; HOJEROVÁ, J.; KOPRDA, V.; BAUEROVÁ, K. Nourishing and health benefits of coenzyme Q 10 – a review. **Czech J. Food Sci**; 26: 229–241, 2008.
80. GHAI, B.; BANSAL, D.; KAPIL, G. et al. High prevalence of hypovitaminosis D in Indian chronic low back patients. **Pain Physician**; 18(5):E853-62, 2015.
81. JIN, X.; JONES, G.; CICUTTINI, F. et al. Effect of vitamin D supplementation on tibial cartilage volume and knee pain among patients with symptomatic knee osteoarthritis: a randomized clinical trial. **JAMA**; 315(10):1005-13, 2016.
82. ALOIA, J.; DHALIWAL, R.; MIKHAIL, M. et al. Free 25(OH)D and calcium absorption, PTH, and markers of bone turnover. **J Clin Endocrinol Metab**; 100(11):4140-5, 2015.
83. CRANNEY, A.; HORSLEY, T.; O'DONNELL, S. et al. Effectiveness and safety of vitamin D in relation to bone health. **Evid Rep Technol Assess**; 158:1-235, 2007.
84. WINTERMEYER, E.; IHLE, C.; EHNERT, S. et al. Crucial role of vitamin D in the musculoskeletal system. **Nutrients**; 8(6), pii: E319, 2016.
85. SEPEHRMANESH, Z.; KOLAHDOOZ, F.; ABEDI, F. et al. Vitamin D supplementation affects the beck depression inventory, insulin resistance, and biomarkers of oxidative stress in patients with major depressive disorder: a randomized, controlled clinical trial. **J Nutr**; 146(2):243-8, 2016.
86. CHANG, E. KIM, Y. Vitamin D decreases adipocyte lipid storage and increases NAD-SIRT1 pathway in 3T3-L1 adipocytes. **Nutrition**; 32(6):702-8, 2016.
87. POLIDORO, L.; PROPERZI, G.; MARAMPON, F. et al. Vitamin D protects human endothelial cells from H2O2 oxidant injury through the Mek/Erk-Sirt1 axis activation. **J Cardiovasc Transl Res**; 6(2):221-31, 2013.
88. POOSUP, N.; SUKSOMBOON, N.; PLORDPLONG, N. Effect of vitamin D supplementation on insulin resistance and glycaemia control in prediabetes: a systematic review and meta-analysis. **Diabet Med**; 33(3): 290-9, 2016.

89. NOBRE, J.L.; LISBOA, P.C.; PEIXOTO-SILVA, N. et al. Role of vitamin D in adipose tissue in obese rats programmed by early weaning and post diet calcium. **Mol Nutr Food Res**; 60(4):810-22, 2016.
90. MUTT, S.J.; HYPPONEM, E.; SAARNIO, J. et al. Vitamin D and adipose tissue-more than storage. **Front Physiol**; 5:228, 2014.
91. BOUILON, R.; CARMELIET, G.; LIEBEN, L. et al. Vitamin D and energy homeostasis: of mice and men. **Nat Rev Endocrinol**; 10(2):79-87, 2014.
92. JI, S.; DOUMIT, M.E.; HILL, R.A. Regulation of adipogenesis and key adipogenic gene expression by 1,25-Dihydroxyvitamin D in 3T3-L1 cells. **PLoS One**; 10(6):e0126142, 2015.
93. KIM, J.H.; KANG, S.; JUNG, Y.N. et al. Cholecalciferol inhibits lipid accumulation by regulating early adipogenesis in culture adipocytes and zebrafish. **Biochem Biophys Res Commun**; 469(3):646-53, 2016.
94. NEYESTANI, T.R.; NIKOOYEH, B.; KALAYI, A. et al. A vitamin D-calcium-fortified yogurt drink decreased serum PTH but did not affect Osteocalcin in subjects with type 2 diabetes. **Int J Vitam Nutr Res**; 85(1-2):61-9, 2015.
95. MAGER, D.R.; JACKSON, S.T.; HOFFMANN, M.R. et al. Vitamin D3 supplementation, bone health and quality of life in adults with diabetes and chronic kidney disease: results of an open label randomized clinical trial. **Clin Nutr**; pii: S0261-5614 (16) 30108-X, 2016.
96. LEE, M.S.; LI, H.L.; HUNG, T.H.; et al. Vitamin D intake and its food sources in Taiwanese. **Asia Pac J Clin Nutr**; 17(3):397-407, 2008.
97. YU, A.; KIM, J.; KWON, O.; et al. The association between serum 25-hydroxyvitamin D concentration and consumption frequencies of vitamin d food sources in korean adolescents. **Clin Nutr Res**; 2(2):107-14, 2013.
98. SPENCE, J.D. Metabolic vitamin B12 deficiency: a missed opportunity to prevent dementia and stroke. **Nutr Res**; 36(2):109-16, 2016.
99. BRESKOLL, J.; DAVELUY, S. A review of vitamin B12 in dermatology. **Am J Clin Dermatol**; 16 (1): 27-33, 2015.
100. LEVIN, B.L.; VARGA, E. MTHFR: Addressing genetic counseling dilemmas using evidence – based literature. **J Genet Couns**; 2016 [Epub ahead of print].
101. BHARGAVA, S.; BHARGAVA, M.S.; NHARGAVA, E.K. et al. Hyperhomocysteinemia, MMPs and cochlear function: a short review. **Indian J Clin Biochem**; 31(2):148-51, 2016.
102. COUSSIRAT, C.; BATISTA, C.; SCHNEIDER, R.H. et al. Vitaminas B12, B6, B9 e homocisteína e sua relação com a massa óssea em idosos. **Rev Bras Geriatr Gerontol**; 15(3):577-585, 2012.
103. HERMANN, M.; PETER SCHMIDT, J.; UMASKAYA, N. et al. The role of hyperhomocysteinemia as well as Folate, vitamin B6 and B12 deficiencies in osteoporosis: a systematic review. **Clin Chem Lab Med**; 45(12):1621-32, 2007.
104. HUANG, Z.; ROSE, A.H.; HOFFMANN, P.R. The role of selenium in inflammation and immunity: from molecular mechanisms to therapeutic opportunities. **Antioxid Redox Signal**; 16(7): 705-43, 2012.
105. BOOSALIS, M.G. The role of selenium in chronic disease. **Nutr Clin Pract**; 23(2): 152-60, 2008.
106. BALÁZS, C.; RÁCZ, K. The role of selenium in endocrine system diseases. **Orv Hetil**; 154(41): 1628-35, 2013.
107. VOLKOTRUB, L.P.; ANDROPOVA, T.V. Role of selenium in the etiology and prevention of diseases (review). **Gig Sanit**; (3): 57-61, 2001.
108. PERETZ, A.; NEVE, J.; DUCHATEAU, J.; FAMAHEY, J.P. Adjuvant treatment of recent onset rheumatoid arthritis by selenium supplementation: preliminary observations. **Br J Rheumatol**; 31(4): 281-2, 1992.
109. PASCO, J.A.; JACKA, F.N.; WILLIAMS, L.J. et al. Dietary selenium and major depression: a nested case-control study. **Complement Ther Med**; 20(3): 119-23, 2012.
110. FARROKHIAN, A.; BAHMANI, F.; TAGHIZADEH, M.; et al. Selenium Supplementation Affects Insulin Resistance and Serum hs-CRP in Patients with Type 2 Diabetes and Coronary Heart Disease. **Horm Metab Res**; 48(4): 263-8, 2016.
111. TOULIS, K.A.; ANASTASILAKIS, A.D.; TZELLOS, T.G.; et al. Selenium supplementation in the treatment of Hashimoto's thyroiditis: a systematic review and a meta-analysis. **Thyroid**; 20(10): 1163-73, 2010.
112. KIM, Y.M.; JUNG, H.J.; CHOI, J.S.; NAM, T.J. Anti-wrinkle effects of a tuna heart H2O fraction on Hs27 human fibroblasts. **Int J Mol Med**; 37 (1): 92-8, 2016.
113. BERTUCCELLI, G.; ZERBINATI, N.; MARCELLINO, M.; et al. Effect of a quality-controlled fermented nutraceutical on skin aging markers: An antioxidant-control, double-blind study. **Exp Ther Med**; 11(3): 909-916, 2016.

1. KATTA, R.; DESAI, S.P. Diet and Dermatology: The Role of Dietary Intervention in Skin Disease. **J Clin Aesthet Dermatol**; 7(7): 46–51, 2014.
2. DRAELOS, Z.D. Aging skin: the role of diet: facts and controversies. **Clin Dermatol**; 31(6): 701-6, 2013.
3. GATES, P.E.; STRAIN, W.D.; SHORE, A.C. Human endothelial function and microvascular ageing. **Exp Physiol**; 94(3): 311-6, 2009.
4. GANCEVICIENE, R.; LIAKOU, A.I.; THEODORIDIS, A.; et al. Skin anti-aging strategies. **Dermatoendocrinol**; 4(3): 308-19, 2012.
5. RUSHTON, D.H. Nutritional factors and hair loss. **Clin Exp Dermatol**; 27(5): 396-404, 2002.
6. VISENTAINER, J.V.; CARVALHO, P.O.; IKEGAKI, M.; PARK, Y.K. Concentração de ácido eicosapentaenoico (EPA) e ácido docosahexaenoico (DHA) em peixes marinhos da costa brasileira. **Cienc Tecnol Aliment**; 20(1): 90-93, 2000.
7. LE FLOCH, C.; CHENITI, A.; CONNETABLE, S.; et al. Effect of a nutritional supplement on hair loss in women. **J Cosmet Dermatol**; 14(1): 76-82, 2015.
8. GOLUCH-KONIUSZY, Z.S. Nutrition of women with hair loss problem during the period of menopause. **Prz Menopauzalny**; 15(1): 56–61, 2016.
9. JACQUET, A.; COOLEN, V.; VANDERMANDER, J. Effect of dietary supplementation with INVERSION Femme on slimming, hair loss, and skin and nail parameters in women. **Adv Ther**; 24(5): 1154-71, 2007.
10. FINNER, A.M. Nutrition and hair: deficiencies and supplements. **Dermatol Clin**; 31(1): 167-72, 2013.
11. WEISE, C.; ERNST, D.; VAN TOL, E.A. et al. Dietary polyunsaturated fatty acids and non-digestible oligosaccharides reduce dermatitis in mice. **Pediatr Allergy Immunol**; 24(4): 361-7, 013.
12. RAPHAEL, W.; SORDILLO, L.M. Dietary Polyunsaturated Fatty Acids and Inflammation: The Role of Phospholipid Biosynthesis. **Int J Mol Sci**; 14(10): 21167–21188, 2013.
13. JUNG, J.Y.; KWON, H.H.; HONG, J.S.; et al. Effect of dietary supplementation with omega-3 fatty acid and gamma-linolenic acid on acne vulgaris: a randomised, double-blind, controlled trial. **Acta Derm Venereol**; 94(5): 521-5, 2014.
14. RUBIN, M.G.; KIM, K.; LOGAN, A.C. Acne vulgaris, mental health and omega-3 fatty acids: a report of cases. **Lipids Health Dis**; 7: 36, 2008.
15. HITCH, J.M.; Greenburg, B.G. Adolescent acne and dietary iodine. **Arch Dermatol**; 84: 898-911, 1961.
16. KUCHARSKA, A.; SZMURŁO, A.; SIŃSKA, B. Significance of diet in treated and untreated acne vulgaris. **Postepy Dermatol Alergol**; 33(2): 81-6, 2016.
17. BOWE, W.P.; JOSHI, S.S.; SHALITA, A.R. Diet and acne. **J Am Acad Dermatol**; 63(1): 124-41, 2010.
18. MCCUSKER, M.M.; GRANT-KELS, J.M. Healing fats of the skin: the structural and immunologic roles of the omega-6 and omega-3 fatty acids. **Clin Dermatol**; 28(4): 440-51, 2010.
19. AFONSO, J.P.J.M.; TUCUNDUVA, T.C.M.; PINHEIRO, M.V.B.; BAGATIN, E. Celulite: artigo de revisao. **Surg Cosmet Dermatol**; 2(3): 214-29, 2010.
20. COSTA, A.; ALVES, C.R.R.; PEREIRA, E.S.P.; et al. Lipodistrofia ginoide e terapeutica clinica: analise critica das publicacoes cientificas disponiveis. **Surg Cosmet Dermatol**; 4(1): 64-75, 2012.
21. ZIVKOVIC, A.M.; TELIS, N.; GERMAN, J.B.; HAMMOCK, B.D. Dietary omega-3 fatty acids aid in the modulation of inflammation and metabolic health. **Calif Agric**; 65(3): 106–111, 2011.
22. SIMOPOULOS, A.P. The importance of the ratio of omega-6/omega-3 essential fatty acids. **Biomed Pharmacother**; 56(8): 365-79, 2002.
23. SHAHBAKHTI, H.; WATSON, R.E.; AZURDIA, R.M.; et al. Influence of eicosapentaenoic acid, an omega-3 fatty acid, on ultraviolet-B generation of prostaglandin-E2 and proinflammatory cytokines interleukin-1 beta, tumor necrosis factor-alpha, interleukin-6 and interleukin-8 in human skin in vivo. **Photochem Photobiol**; 80(2): 231-5, 2004.
24. SIMOPOULOS, A.P. Importance of the omega-6/omega-3 balance in health and disease: evolutionary aspects of diet. **World Rev Nutr Diet**; 102: 10-21, 2011.
25. YASHODHARA, B.M.; UMAKANTH, S.; PAPPACHAN, J.M.; et al. Omega-3 fatty acids: a comprehensive review of their role in health and disease. **Postgrad Med J**; 85(1000): 84-90, 2009.
26. JEN, M.; YAN, A.C. Syndromes associated with nutritional deficiency and excess. **Clin Dermatol**; 28(6): 669-85, 2010.
27. MANN, D.; PRESOTTO, C.; QUEEN, S.M.; et al. Cutaneous manifestations of kwashiorkor: a case report of an adult man after abdominal surgery. **An Bras Dermatol**; 86(6): 1174-7, 2011.
28. SIMS, R.T. Hair growth as an index of protein synthesis. **Br J Dermatol**; 80(5): 337-9, 1968.
29. SHAPIRO, J. Clinical practice. Hair loss in women. **N Engl J Med**; 357(16): 1620-30, 2007.
30. RUSHTON, D.H.; et al. Causes of hair loss and the developments in hair rejuvenation. **Int J Cosmet Sci**; 24(1):17-23, 2002.
31. RUSHTON, D.H.; NORRIS, M.J.; DOVER, R. et al. Causes of hair loss and the developments in hair rejuvenation. **Int J Cosmet Sci**; 24:17-23, 2002.
32. MARQUES, N.C. et al. Does a controlled diet improve cellulite? **Int J Nutr**; 2(1): 25-37, 2016.
33. BENDER, N.; PORTMANN, M.; HEG, Z. et al. Fish or n3-PUFA intake and body composition: a systematic review and meta-analysis. **Obes Res**; 15(8): 657-65, 2014.
34. BARIL-GRAVEL, L.; LABONTE, M.E.; COUTURE, P. et al. Docosahexaenoic acid-enriched canola oil increases adiponectin concentrations: a randomized crossover controlled intervention trial. **Nutr Metab Cardiovasc Dis**; 25(1): 52-9,2015.

35. LE FLOC'H, C.; CHENITI, A.; CONNETABLE, S.; et al. Effect of a nutritional supplement on hair loss in women. **J Cosmet Dermatol**; 14(1): 76-82, 2015.
36. WEISE, C.; ERNST, D.; VAN TOL, E.A. et al. Dietary polyunsaturated fatty acids and non-digestible oligosaccharides reduce dermatitis in mice. **Pediatr Allergy Immunol**; 24(4): 361-7, 2013.
37. BALCOS, M.C.; KIM, S.Y.; JEONG, H.S. et al. Docosahexaenoic acid inhibits melanin synthesis in murine melanoma cells in vitro through increasing tyrosinase degradation. **Acta Pharmacol Sin**; 35(4):489-95, 2014.
38. MADANI, Z.; LOUCHAMI, K.; SENER, A. et al. Dietary sardine protein lowers insulin resistance, leptin and TNF- α and beneficially affects adipose tissue oxidative stress in rats with fructose-induced metabolic syndrome. **Int J Mol Med**; 29(3): 311-8, 2012.
39. COLLIN, C.; GAUTIER, B.; GAILLARD, O. et al. Protective effects of taurine on human hair follicle grown in vitro. **Int J Cosmet Sci**; 28(4):289-98, 2006.
40. OHGITANI, S.; FUJITA, T.; FUJII, Y. et al. Nail calcium and magnesium content in relation to age and bone mineral density. **J Bone Miner Metab**; 23(4):318-22, 2005.
41. MADY, L.J.; AJIBADE, D.V.; HSAIO, C. et al. The transient role for calcium and vitamin D during the developmental hair follicle cycle. **J Invest Dermatol**; 136(7):1337-45, 2016.
42. PARK, S.Y.; NA, S.Y.; KIM, J.H. et al. Iron plays a certain role in patterned hair loss. **J Korean Med Sci**; 28(6):934-8, 2013.
43. SHAB-BIDAR, S.; NEYESTANI, T.R.; DJAZAYERI, A. et al. The interactive effect of improvement of vitamin D status and VDR FokI variants on oxidative stress in type 2 diabetic subjects: a randomized controlled trial. **Eur J Clin Nutr**; 69(2):216-22, 2015.
44. BERRIDGE, M.J. Vitamin D cell signaling in health and disease. **Biochem Biophys Res Commun**; 460(1): 53-71, 2015.
45. LIM, S.K.; et al. Comparison of Vitamin D Levels in Patients with and without Acne: A Case-Control Study Combined with a Randomized Controlled Trial. **PLoS One**; 11 (8): e0161162, 2016.
46. LEE, W.J.; et al. Effect of Vitamin D on the Expression of Inflammatory Biomarkers in Cultured Sebocytes Treated with Propionibacterium acnes or Ultraviolet B Irradiation. **Ann Dermatol**; 28(5):665-669, 2016.
47. McGUIRE, J.; et al. The 2014 FDA assessment of commercial fish: practical considerations for improved dietary guidance. **Nutr J**; 15(1):66, 2016.
48. ALTINTERIM, B. The effect of respiratory chain of CoQ10. **Sakaryamj**; 3(2): 51-54, 2013.
49. MIYAMAE, T.; SEKI, M.; NAGA, T. et al. Increased oxidative stress and coenzyme Q 10 deficiency in juvenile fibromyalgia: amelioration of hypercholesterolemia and fatigue by ubiquinol-10 supplementation. **Redox Rep**; 18(1):12-9, 2013.
50. MIZUNO, K.; TANAKA, M.; NOZABI, S. et al. Antifatigue effects of coenzyme Q10 during physical fatigue. **Nutrition**; 24(4):293-9, 2008.
51. BALCERZUK, A.; GAJAWSKA, A.; MACIERZYNSKA-PIOTROWSKA, E. et al. Enhanced antioxidant capacity and anti-ageing biomarkers after diet micronutrient supplementation. **Molecules**; 19(9):14794-808, 2014.
52. MOAZEN, M.; MAZLOOM, Z. AHMADI, A. et al. Effect of coenzyme Q10 on glycaemic control, oxidative stress and adiponectin in type 2 diabetes. **J Pak Med Assoc**; 65(4):404-8, 2015.
53. YANG, H.L.; LIN, M.W.; KORIVI, M. et al. Coenzyme Q10 regulates NF κ B/AP-1 activation and enhances NRF2 stabilization in attenuation of LPS-induced inflammation and redox imbalance: evidence from in vitro and in vivo studies. **Biochim Biophys Acta**; 1859(2):246-61, 2016.
54. KAMEI, M.; FUJITA, T.; SASAKI, K. et al. The distribution and content of ubiquinone in foods. **Int J Vit Nutr Res**; 56: 57-63, 1986.
55. BOREKOVÁ, M.; HOJEROVÁ, J.; KOPRDA, V.; BAUEROVÁ, K. Nourishing and health benefits of coenzyme Q 10 – a review. **Czech J. Food Sci**; 26: 229–241, 2008.
56. GHAI, B.; BANSAL, D.; KAPIL, G. et al. High prevalence of hypovitaminosis D in Indian chronic low back patients. **Pain Physician**; 18(5):E853-62, 2015.
57. JIN, X.; JONES, G.; CICUTTINI, F. et al. Effect of vitamin D supplementation on tibial cartilage volume and knee pain among patients with symptomatic knee osteoarthritis: a randomized clinical trial. **JAMA**; 315(10):1005-13, 2016.
58. ALOIA, J.; DHALIWAL, R.; MIKHAIL, M. et al. Free 25(OH)D and calcium absorption, PTH, and markers of bone turnover. **J Clin Endocrinol Metab**; 100(11):4140-5, 2015.
59. CRANNEY, A.; HORSLEY, T.; O'DONNELL, S. et al. Effectiveness and safety of vitamin D in relation to bone health. **Evid Rep Technol Assess**; 158:1-235, 2007.
60. WINTERMEYER, E.; IHLE, C.; EHNERT, S. et al. Crucial role of vitamin D in the musculoskeletal system. **Nutrients**; 8(6), pii: E319, 2016.
61. SEPEHRMANESH, Z.; KOLAHDOOZ, F.; ABEDI, F. et al. Vitamin D supplementation affects the beck depression inventory, insulin resistance, and biomarkers of oxidative stress in patients with major depressive disorder: a randomized, controlled clinical trial. **J Nutr**; 146(2):243-8, 2016.
62. CHANG, E. KIM, Y. Vitamin D decreases adipocyte lipid storage and increases NAD-SIRT1 pathway in 3T3-L1 adipocytes. **Nutrition**; 32(6):702-8, 2016.
63. POLIDORO, L.; PROPERZI, G.; MARAMPON, F. et al. Vitamin D protects human endothelial cells from H₂O₂ oxidant injury through the Mek/Erk-Sirt1 axis activation. **J Cardiovasc Transl Res**; 6(2):221-31, 2013.

64. POOSUP, N.; SUKSOMBOON, N.; PLORDPLONG, N. Effect of vitamin D supplementation on insulin resistance and glycaemia control in prediabetes: a systematic review and meta-analysis. **Diabet Med**; 33(3): 290-9, 2016. NOBRE, J.L.; LISBOA, P.C.; PEIXOTO-SILVA, N. et al. Role of vitamin D in adipose tissue in obese rats programmed by early weaning and post diet calcium. **Mol Nutr Food Res**; 60(4):810-22, 2016.
65. MUTT, S.J.; HYPONEM, E.; SAARNIO, J. et al. Vitamin D and adipose tissue-more than storage. **Front Physiol**; 5:228, 2014.
66. BOUILON, R.; CARMELIET, G.; LIEBEN, L. et al. Vitamin D and energy homeostasis: of mice and men. **Nat Rev Endocrinol**; 10(2):79-87, 2014.
67. JI, S.; DOUMIT, M.E.; HILL, R.A. Regulation of adipogenesis and key adipogenic gene expression by 1,25-Dihydroxyvitamin D in 3T3-L1 cells. **PLoS One**; 10(6):e0126142, 2015.
68. KIM, J.H.; KANG, S.; JUNG, Y.N. et al. Cholecalciferol inhibits lipid accumulation by regulating early adipogenesis in culture adipocytes and zebrafish. **Biochem Biophys Res Commun**; 469(3):646-53, 2016.
69. NEYESTANI, T.R.; NIKOOYEH, B.; KALAYI, A. et al. A vitamin D-calcium-fortified yogurt drink decreased serum PTH but did not affect Osteocalcin in subjects with type 2 diabetes. **Int J Vitam Nutr Res**; 85(1-2):61-9, 2015.
70. MAGER, D.R.; JACKSON, S.T.; HOFFMANN, M.R. et al. Vitamin D3 supplementation, bone health and quality of life in adults with diabetes and chronic kidney disease: results of an open label randomized clinical trial. **Clin Nutr**; pii: S0261-5614 (16) 30108-X, 2016.
71. LEE, M.S.; LI, H.L.; HUNG, T.H.; et al. Vitamin D intake and its food sources in Taiwanese. **Asia Pac J Clin Nutr**; 17(3):397-407, 2008.
72. YU, A.; KIM, J.; KWON, O.; et al. The association between serum 25-hydroxyvitamin D concentration and consumption frequencies of vitamin d food sources in korean adolescents. **Clin Nutr Res**; 2(2):107-14, 2013.
73. SPENCE, J.D. Metabolic vitamin B12 deficiency: a missed opportunity to prevent dementia and stroke. **Nutr Res**; 36(2):109-16, 2016.
74. BRESKOLL, J.; DAVELUY, S. A review of vitamin B12 in dermatology. **Am J Clin Dermatol**; 16 (1): 27-33, 2015.]
75. LEVIN, B.L.; VARGA, E. MTHFR: Addressing genetic counseling dilemmas using evidence – based literature. **J Genet Couns**; 2016 [Epub ahead of print].
76. BHARGAVA, S.; BHARGAVA, M.S.; NHARGAVA, E.K. et al. Hyperhomocysteinemia, MMPs and cochlear function: a short review. **Indian J Clin Biochem**; 31(2):148-51, 2016.
77. COUSSIRAT, C.; BATISTA, C.; SCHNEIDER, R.H. et al. Vitaminas B12, B6, B9 e homocisteína e sua relação com a massa óssea em idosos. **Rev Bras Geriatr Gerontol**; 15(3):577-585, 2012.
78. HERMANN, M.; PETER SCHMIDT, J.; UMASKAYA, N. et al. The role of hyperhomocysteinemia as well as folate, vitamin B6 and B12 deficiencies in osteoporosis: a systematic review. **Clin Chem Lab Med**; 45(12):1621-32, 2007.
79. HUANG, Z.; ROSE, A.H.; HOFFMANN, P.R. The role of selenium in inflammation and immunity: from molecular mechanisms to therapeutic opportunities. **Antioxid Redox Signal**; 16(7): 705-43, 2012.
80. BOOSALIS, M.G. The role of selenium in chronic disease. **Nutr Clin Pract**; 23(2): 152-60, 2008.
81. BALÁZS, C.; RÁCZ, K. The role of selenium in endocrine system diseases. **Orv Hetil**; 154(41): 1628-35, 2013.
82. VOLKOTRUB, L.P.; ANDROPOVA, T.V. Role of selenium in the etiology and prevention of diseases (review). **Gig Sanit**; (3): 57-61, 2001.
83. PERETZ, A.; NEVE, J.; DUCHATEAU, J.; FAMAHEY, J.P. Adjuvant treatment of recent onset rheumatoid arthritis by selenium supplementation: preliminary observations. **Br J Rheumatol**; 31(4): 281-2, 1992.
84. PASCO, J.A.; JACKA, F.N.; WILLIAMS, L.J. et al. Dietary selenium and major depression: a nested casecontrol study. **Complement Ther Med**; 20(3): 119-23, 2012.
85. FARROKHIAN, A.; BAHMANI, F.; TAGHIZADEH, M.; et al. Selenium Supplementation Affects Insulin Resistance and Serum hs-CRP in Patients with Type 2 Diabetes and Coronary Heart Disease. **Horm Metab Res**; 48(4): 263-8, 2016.
86. TOULIS, K.A.; ANASTASILAKIS, A.D.; TZELLOS, T.G.; et al. Selenium supplementation in the treatment of Hashimoto's thyroiditis: a systematic review and a meta-analysis. **Thyroid**; 20(10): 1163-73, 2010.
87. KIM, Y.M.; JUNG, H.J.; CHOI, J.S.; NAM, T.J. Anti-wrinkle effects of a tuna heart H2O fraction on Hs27 human fibroblasts. **Int J Mol Med**; 37 (1): 92-8, 2016.
88. BERTUCCELLI, G.; ZERBINATI, N.; MARCELLINO, M.; et al. Effect of a quality-controlled fermented nutraceutical on skin aging markers: An antioxidant-control, double-blind study. **Exp Ther Med**; 11(3): 909-916, 2016.