



# REFERENCES

- <sup>1</sup>Faustino L, Pires R, Lima A et al. Liver glutathione S-transferase expression is decreased by 3,5,3-triiodothyronine in hypothyroid but not in euthyroid mice. *Exp Physiol* 2011;96:790-800.
- <sup>2</sup>Kowalczyk E, Urbanowicz J, Kopff M et al. Elements of oxidation/reduction balance in experimental hypothyroidism. *Endokrynol Pol* 2011;62:220-223.
- <sup>3</sup>Ibrahim W, Tousson E, El-Masry T et al. The effect of folic acid as an antioxidant on the hypothalamic monoamines in experimentally induced hypothyroid rat. *Toxicol Ind Health* 2011 Epub ahead of print.
- <sup>4</sup>Lippi G, Montagnana M, Targher G et al. Prevalence of folic acid and vitamin B12 deficiencies in patients with thyroid disorders. *Am J Med Sci* 2008;336:50-52.
- <sup>5</sup>Evrengul H, Tanriverdi H, Enli Y et al. Interaction of plasma homocysteine and thyroid hormone concentrations in the pathogenesis of the slow coronary flow phenomenon. *Cardiology* 2007;108:186-192.
- <sup>6</sup>Stella G, Spada R, Calabrese S et al. Association of thyroid dysfunction with vitamin B12, folate and plasma homocysteine levels in the elderly: a population-based study in Sicily. *Clin Chem Lab Med* 2007;45:143-147.
- <sup>7</sup>Orzechowska-Pawilojc A, Sworzczak K, Lewczuk A et al. Homocysteine, folate and cobalamin levels in hypothyroid women before and after treatment. *Endocr J* 2007;54:471-476.
- <sup>8</sup>Kelly GS. Peripheral metabolism of thyroid hormones: a review. *Altern Med Rev* 2000;5(4):306-333.
- <sup>9</sup>Gupta P, Kar A. Role of ascorbic acid in cadmium-induced thyroid dysfunction and lipid peroxidation. *J Appl Toxicol* 1998;18:317-320.
- <sup>10</sup>Chaurasia S, Kar A. Protective effects of vitamin E against lead-induced deterioration of membrane associated type-I iodothyronine 5'-monodeiodinase (5'D-I) activity in male mice. *Toxicology* 1997;124:203-209.
- <sup>11</sup>Yu J, Shan Z, Chong W et al. Vitamin E ameliorates iodine-induced cytotoxicity in thyroid. *J Endocrinol* 2011;209:299-306.
- <sup>12</sup>Zimmermann M, Jooste P, Mabapa N et al. Vitamin A supplementation in iodine-deficient African children decreases thyrotropin stimulation of the thyroid and reduces the goiter rate. *Am J Clin Nutr* 2007;86:1040-1044.
- <sup>13</sup>Zimmermann M. Interactions of vitamin A and iodine deficiencies: effects on the pituitary-thyroid axis. *Int J Vitam Nutr Res* 2007;77:236-240.
- <sup>14</sup>Beibinger R, Arnold M, Langhans W et al. Vitamin A repletion in rats with concurrent vitamin A and iodine deficiency affects pituitary TSHbeta gene expression and reduces thyroid hyperstimulation and thyroid size. *J Nutr* 2007;137:537-577.
- <sup>15</sup>Nishiyama S, Futagoishi-Suginohara Y, Matsukura M et al. Zinc supplementation alters thyroid hormone metabolism in disabled patients with zinc deficiency. *J Am Coll Nutr* 1994;13:62-67.
- <sup>16</sup>Fujimoto S, Indo Y, Higashi A et al. Conversion of thyroxine into tri-iodothyronine in zinc deficient rat liver. *J Pediatr Gastroenterol Nutr* 1986;5:799-805.
- <sup>17</sup>Alturfan A, Zengin E, Dariyerli N et al. Investigation of zinc and copper levels in methimazole-induced hypothyroidism: relation with the oxidant-antioxidant status. *Folia Biol* 2007;53:183-188.
- <sup>18</sup>Moncayo R, Kroiss A, Oberwinkler M et al. The role of Se, vitamin C, and zinc in benign thyroid diseases and of Se in malignant thyroid diseases: low Se levels are found in subacute and silent thyroiditis and in papillary and follicular carcinoma. *BMC Endocr Disord* 2008;8:2.
- <sup>19</sup>Arthur J, Nicol F, Beckett G et al. Selenium deficiency, thyroid hormone metabolism, and thyroid hormone deiodinases. *Am J Clin Nutr* 1993;57:236S-239S.
- <sup>20</sup>Kralik A, Eder K, Kirchgessner M. Influence of zinc and selenium deficiency on parameters relating to thyroid hormone metabolism. *Horm Metab Res* 1996;28:223-226.
- <sup>21</sup>Olivieri O, Girelli D, Stanzial A et al. Selenium, zinc and thyroid hormones in healthy subjects: low T3/T4 ratio in the elderly is related to impaired selenium status. *Biol Trace Elem Res* 1996;51:31-41.
- <sup>22</sup>Russo D, Chazenbalk G, Nagayama Y et al. Site-directed mutagenesis of the human thyrotropin receptor: role of asparagine-linked oligosaccharides in the expression of a functional receptor. *Mol Endocrinol* 1991;5:29-33.
- <sup>23</sup>Fares F, Gruener N, Kraiem Z. The role of the asparagine-linked oligosaccharides of the alpha-subunit in human thyrotropin bioactivity. *Endocrinology* 1996;137:555-560.
- <sup>24</sup>Benvenega S. Effects of L-carnitine on thyroid hormone metabolism and on physical exercise tolerance. *Horm Metab Res* 2005;37:566-571.
- <sup>25</sup>Sinclair C, Gilchrist J, Hennessey J et al. Muscle carnitine in hypo- and hyperthyroidism. *Muscle Nerve* 2005;32:357-359.
- <sup>26</sup>Benvenega S, Amato A, Calvani M et al. Effects of carnitine on thyroid hormone action. *Ann NY Acad Sci* 2004;1033:158-167.
- <sup>27</sup>Gd X, Jh P, Hi S, Ls Z. Alpha-lipoic Acid Improves Endothelial Dysfunction in Patients with Subclinical Hypothyroidism. *Exp Clin Endocrinol Diabetes* 2010;118:625-629.
- <sup>28</sup>Segermann J, Hotze A, Ulrich H et al. Effect of alpha-lipoic acid on the peripheral conversion of thyroxine to triiodothyronine and on serum lipid-, protein- and glucose levels. *Arzneimittelforschung* 1991;41:1294-1298.
- <sup>29</sup>Sawin S, Brodish P, Carter C et al. Development of cholinergic neurons in rat brain regions: dose-dependent effects of propylthiouracil-induced hypothyroidism. *Neurotoxicol Teratol* 1998;20:627-635.
- <sup>30</sup>Modi S, Bhattacharya M, Sekhri T et al. Assessment of the metabolic profile in Type 2 diabetes mellitus and hypothyroidism through proton MR spectroscopy. *Magn Reson Imaging* 2008;26:420-425.

