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- Pochin EE. 1952. The iodine uptake of the human thyroid throughout the menstrual cycle and in pregnancy. *Clin Sci* 11:441-445.
- \*Pohlenz J, Refetoff S. 1999. Mutations in the sodium/iodide symporter (NIS) gene as a cause for iodide transport defects and congenital hypothyroidism. *Biochimie* 81:469-476.
- \*Pohlenz J, Medeiros-Neto G, Gross JL, et al. 1997. Hypothyroidism in a Brazilian kindred due to iodide trapping defect caused by a homozygous mutation in the sodium/iodide symporter gene. *Biochem Biophys Res Commun* 240:488-491.
- Poliak AL. 1988a. [Effect of iodine vapors on the oral mucosa of workers in iodine manufacture.] *Gig Tr Prof Zabol* 7:26-28. (Russian)
- Poliak AL. 1988b. [Experimental data on the effect of iodine vapors on the tissues and organs of the oral cavity.] *Gig Tr Prof Zabol* 9:48-49. (Russian)
- \*Pomroy C. 1979. Surveys of lab technicians for <sup>125</sup>I thyroid burdens. *Occup Health Safe* 48(4):40-42.
- Porri F, Vervloet D. 1994. [Reactions to iodinated contrast media.] *Allerg Immunol (Paris)* 26(10):374-376. (French)
- Porterfield SP, Hendrich CE. 1991. The thyroidectomized pregnant rat-an animal model to study fetal effects of maternal hypothyroidism. In: Bercu BB, Shulman DI, eds. *Advances in perinatal thyroidology*. New York, NY: Plenum Press, 107-132.
- Porterfield SP, Hendrich CE. 1993. The role of thyroid hormones in prenatal and neonatal neurological development-current perspectives. *Endocrine Rev* 14(1):94-106.
- Postellon DC, Aronow R. 1982. Iodine in mother's milk. *JAMA* 247(4):463.
- \*Poston TM. 1986. Literature review of the concentration ratios of selected radioisotopes in freshwater and marine fish. Battelle Pacific Northwest Labs Report No. DE86-015820 (NTIS/DE86015820), 1-21, 82-84, 243-272.
- Potter GD, Taurog A, Chaikoff IL. 1956. The I<sup>131</sup>-irradiated rat thyroid: It's altered response to various stimuli and the changes induced in its iodine metabolism. *Endocrinology* 59(1):12-26.
- Pottern LM, Kaplan MM, Larsen PR, et al. 1990. Thyroid nodularity after childhood irradiation for lymphoid hyperplasia: A comparison of questionnaire and clinical findings. *J Clin Epidemiol* 43(5):449-460.
- Poverennyi AM, Shinkarkina AP, Vinogradova YE, et al. 1996. [Probable consequence of damage by radioactive iodine to thyroid gland in the period of the Chernobyl accident.] *Radiats Biol Radioecol* 36(4):632-640. (Russian)
- \*Povinec PP, Oregioni B, Jull AJT, et al. 2000. AMS measurements of <sup>14</sup>C and <sup>129</sup>I in seawater around radioactive waste dump sites. *Nucl Instrum Meth Phys Res Sect B* 172:672-678.
- Powell E. 1978. Iodine and acetone-containing plastic spray dressings. *Br Med J* 2(6150):1500.





























































## 9. REFERENCES

- Tam M. 1988. Australian Dermato-Pathology Society case presentation: Acute painful nodules on the head and neck. *Australas J Dermatol* 29:179-180.
- Tamdor J. 1971. Consideration of stable iodine in the environment in the evaluation of maximum permissible concentrations for iodine-129. *Radiol Health Data Rep* 12(12):611-614.
- Tamura T, Mitsumori K, Onodera H, et al. 1999. Inhibition of thyroid iodine uptake and organification in rats treated with kojic acid. *Toxicol Sci* 47:170-175.
- Tan TT, Morat P, Ng ML, et al. 1989. Effects of Lugol's solution on the thyroid function in normals and patients with untreated thyrotoxicosis. *Clin Endocrinol* 30:645-649.
- Tanaami S, Katamine S, Hoshino N, et al. 1985. Histopathological study on rats fed iodine-enriched eggs long-term (7 and 9 months). *J Nutr Sci Vitaminol* 31:29-42.
- Tanigawa K, Yamishita S, Nagataki S. 1995. Pancytopenia after repeated radioiodine treatment on metastatic thyroid cancer to bone. *Chin Med J* 108:796-797.
- Taniguchi S-I, Shong M, Giuliani C, et al. 1998. Iodide suppression of major histocompatibility class I gene expression in thyroid cells involves enhancer A and the transcription factor NF-kb. *Mol Endocrinol* 12:19-33.
- Tarasenko LV, Varga SV, Demchenko VN, et al. 1994. [Effect of <sup>131</sup>I incorporation on male rat reproductive system and dose-dependent effects.] *Probl Endokrinol (Mosk)* 40(3):45-47. (Russian)
- Targovnik HM, Gluzman BE, Coleoni AH, et al. 1980. Effects of phenylbutazone on thyroid iodine metabolism in vitro. *Acta Endocrinol* 94:64-70.
- Tarutani O, Kondo T, Horiguchi-Sho K. 1975. The effect of iodide administration on hog thyroid gland and the composition of thyroglobulin and 27-S iodoprotein. *Endocrinol Jpn* 22(5):389-397.
- Taurog A. 1970. Thyroid peroxidase-catalyzed iodination of thyroglobulin; inhibition by excess iodide. *Arch Biochem Biophys* 139:212-220.
- \*Taurog A. 1996. Hormone synthesis. In: Braverman LE, Utiger RD, eds. *Werner and Ingbar's the thyroid: A fundamental and clinical text*. Philadelphia, PA: Lippincott-Raven, 47-84.
- \*Taurog A. 2000. Hormone synthesis: Thyroid iodine metabolism. In: Braverman LE, Utiger RD, eds. *Werner and Ingbar's the thyroid: A fundamental and clinical text*. 8<sup>th</sup> ed. Philadelphia, PA: Lippincott-Williams and Wilkins, 61-84.
- \*Taurog A, Dorris M, Doerge DR. 1994. Evidence for a radical mechanism in peroxidase-catalyzed coupling: I. Steady state experiments with various peroxidases. *Arch Biochem Biophys* 315:82.
- \*Taylor JP, Metcalfe RA, Watson PF, et al. 2002. Mutations of the PDS gene, encoding pendrin, are associated with protein mislocalization and loss of iodide efflux: Implications for thyroid dysfunction in Pendred Syndrome. *J Clin Endocrinol Metab* 87(4):1778-1784.
- Taylor DM. 1981. The radiotoxicology of iodine. *J Radioanal Chem* 65(1-2):195-208.

## 9. REFERENCES

- \*Tazebay UH, Wapnir IL, Levy O, et al. 2000. The mammary gland iodide transporter is expressed during lactation and in breast cancer. *Nat Med* 6(8):859-860.
- Terahara A, Nakano T, Ishikawa A, et al. 1996. Dose-volume histogram analysis of high dose rate intracavitary brachytherapy for uterine cervix cancer. *Int J Radiat Oncol Biol Phys* 35(3):549-554.
- Teraoka K, Minakuchi K, Kuzime T, et al. 1991. Lithium and carbamazepine effects on iodide metabolising enzymes from the porcine thyroid. *Lithium* 2:37-42.
- Tezelman S, Grossman RF, Siperstein AE, et al. 1994. Radioiodine-associated thyroid cancers. *World J Surg* 18:522-528.
- Theodoropoulos LE, Braverman LE, Vagenakis AG. 1979. Iodide-induced hypothyroidism: A potential hazard during perinatal life. *Science* 205:502-503.
- \*Thieblemont P, Marble G, Perrault G, et al. 1965. Evaluation de la retention respiratoire et de l'elimination du radioiode apres contamination aerienne du singe. *Int J Radiat Biol* 9(3):219-231.
- Thiessen KM, Thorne MC, Maul PR, et al. 1999. Modelling radionuclide distribution and transport in the environment. *Environ Pollut* 100:151-177.
- Thomas GA, Williams ED. 1999. Thyroid stimulating hormone (TSH)-associated follicular hypertrophy and hyperplasia as a mechanism of thyroid carcinogenesis in mice and rats. In: Capen CC, Dybing E, Rice JM, et al., eds. *Species differences in thyroid, kidney and urinary bladder carcinogenesis*. Lyon, France: International Agency for Research on Cancer, 45-59.
- Thomas PJ. 1997. Predicting Chernobyl childhood thyroid cancers from incoming data. *Nucl Energy (Br Nucl Energy Soc)* 36(3):209-221.
- \*Thomas RL, Scott JK, Chiffelle TL. 1970. Metabolism and toxicity of inhaled and injected <sup>131</sup>I in the rat. *Am Ind Hyg Assoc J* 31:213-220.
- Thomas WC, Malagodi MH, Oates TW, et al. 1979. Effects of an iodinated water supply. *Trans Am Clin Climatol Assoc* 90:153-162.
- \*Thompson DE, Mabuchi K, Ron E, et al. 1994. Cancer incidence in atomic bomb survivors. Part II: Solid tumors, 1958-1987. *Radiat Res* 137:S17-S67.
- Thomson CD, Packer MA, Butler JA, et al. 2001. Urinary selenium and iodine during pregnancy and lactation. *J Trace Elem Med Biol* 14(4):210-217.
- Thomson CD, Woodruffe S, Colls AJ, et al. 2001. Original communication. Urinary iodine and thyroid status of New Zealand residents. *Eur J Clin Nutr* 55(5):387-392.
- Thomson JA, Riley ID. 1966. Neonatal thyrotoxicosis associated with maternal hypothyroidism. *Lancet* 1(7438):635-636.
- Thomson WH, Harding LK. 1995. Radiation protection issues associated with nuclear medicine outpatients. *Nucl Med Commun* 16:879-892.

## 9. REFERENCES

- Thorpe SM. 1976. Increased uptake of iodide by hormone-responsive compared to hormone-independent mammary tumors in GR mice. *Int J Cancer* 18:345-350.
- Thorsteinsson B, Kirkegaard C. 1977. Iodine-induced hyperthyroidism and bronchial asthma. *Lancet* 2(8032):294.
- \*Thrall KD, Bull RJ. 1990. Differences in the distribution of iodine and iodide in the Sprague-Dawley rat. *Fundam Appl Toxicol* 15:75-81.
- Thrall KD, Sauer RL, Bull RJ. 1992. Evidence of thyroxine formation following iodine administration in Sprague-Dawley rats. *J Toxicol Environ Health* 37:535-548.
- Thurston V, Williams ED. 1982. The effect of radiation on thyroid C cells. *Acta Endocrinol* 99:72-78.
- Tighe WJ. 1952. Temporary hypoparathyroidism following radioactive iodine treatment for thyrotoxicosis. *J Clin Endocrinol Metab* 12:1220-1222.
- Tiku ML, Farias AE, Johnson SC. 1976. Iodide myxoedema simulating filariasis. *Indian J Med Sci* 30(9):291-292.
- Tisell L-E, Carlsson S, Fjalling M, et al. 1985. Hyperparathyroidism subsequent to neck irradiation. *Cancer* 56:1529-1533.
- \*Todd CH, Allain T, Gomo ZAR, et al. 1995. Increase in thyrotoxicosis associated with iodine supplements in Zimbabwe. *Lancet* 346:1563-1564.
- Toft AD, Irvine WJ, Hunter WM, et al. 1974a. Anomalous plasma TSH levels in patients developing hypothyroidism in the early months after <sup>131</sup>I therapy for thyrotoxicosis. *J Clin Endocrinol Metab* 39:607-609.
- Toft AD, Seth J, Hunter WM, et al. 1974b. Plasma-thyrotropin and serum-thyroxine in patients becoming hypothyroid in the early months after iodine-131. *Lancet* 1(7860):704-705.
- Tokuda Y, Kasagi K, Iida Y, et al. 1988. Inhibition of thyrotropin-stimulated iodide uptake in FRTL-5 thyroid cells by crude immunoglobulin fractions from patients with goitrous and atrophic autoimmune thyroiditis. *J Clin Endocrinol Metab* 67(2):251-258.
- Tomlinson C, Nowles KW, McDougall IR. 1991. Papillary cancer in a patient treated with radioiodine for Graves' hyperthyroidism: Case report and a review of the risk. *Clin Nucl Med* 16(10):729-731.
- Tomonaga M, Nonaka H, Matsuo T. 1996. Atomic bomb irradiation and human leukemias. In: Nagataki S, Yamashita S, eds. *Nagasaki symposium radiation and human health: Proposal from Nagasaki*. Amsterdam, The Netherlands: Elsevier, 197-215.
- Tonacchera M, Agretti P, Ceccarini G, et al. 2001. Autoantibodies from patients with autoimmune thyroid disease do not interfere with the activity of the human iodide symporter gene stably transfected in CHO cells. *Eur J Endocrinol* 144(6):611-618.
- \*Tong Q, Ryu K-Y, Jhiang SM. 1997. Promoter characterization of the rat Na<sup>+</sup>/I<sup>-</sup> symporter gene. *Biochem Biophys Res Commun* 239:34-41.



## 9. REFERENCES

- Tony JC, Verghese R, Mathew G. 1994. Radio iodine induced thyroid storm. *J Assoc Physicians India* 42(11):924-925.
- \*Topliss DJ, Kolliniatis E, Barlow JW, et al. 1989. Uptake of 3,5,3'-triiodothyronine by cultured rat hepatoma cells is inhibitable by nonbile acid cholephils, diphenylhydantoin, and nonsteroidal antiinflammatory drugs. *Endocrinology* 124:980-986.
- Toran L. 1994. Radionuclide contamination in groundwater: Is there a problem? In: *Environmental science pollution control series*. New York, NY: M. Dekker, 437-453.
- \*Tosti A, Vincenzi C, Bardazzi F, et al. 1990. Allergic contact dermatitis due to povidone-iodine. *Contact Dermatitis* 23:197-198.
- Townsend JD. 1961. Hypoparathyroidism following radioactive iodine therapy for intractable angina pectoris. *Ann Intern Med* 55:662-663.
- \*Tracy BL, Walker WB, McGregor RG. 1989. Transfer of milk to  $^{131}\text{I}$  and  $^{137}\text{Cs}$  released during the Chernobyl reactor accident. *Health Phys* 56(2):239-243.
- Tran N, Laplante M, LeBel E, et al. 1970. The effect of sodium iodide on the oxidation in vivo of [1- $^{14}\text{C}$ ] L-tyrosine to  $^{14}\text{CO}_2$  in normal rats: A vibrating-reed electrometer-ionization chamber method. *Arch Int Physiol Biochim* 78:909-917.
- Trapasso F, Martelli ML, Battaglia C, et al. 1996. The v-erbA oncogene selectively inhibits iodide uptake in rat thyroid cells. *Oncogene* 12(9):1879-1888.
- Traynor K. 2002. FDA offers guidance on prophylaxis for exposure to radioiodines. *Am J Health Syst Pharm* 59(4):324-326.
- \*Tresch DD, Sweet DL, Keelan MHJ, et al. 1974. Acute iodide intoxication with cardiac irritability. *Arch Intern Med* 134:760-762.
- Triggs SM, Williams ED. 1977. Irradiation of the thyroid as a cause of parathyroid adenoma. *Lancet* 1:593-594.
- \*Tronko ND, Bogdanova TI, Epstein EV, et al. 1996. Thyroid cancer in children and adolescents in Ukraine (analysis of the situation in 1994). In: Nagataki S, Yamashita S, eds. *Nagasaki symposium radiation and human health: Proposal from Nagasaki*. Amsterdam, The Netherlands: Elsevier, 3-13.
- \*Trowbridge FL, Matovinovic J, McLaren GD, et al. 1975. Iodine and goiter in children. *Pediatrics* 56:82-90.
- \*Truesdale VW, Smith PJ. 1975. The automatic determination of iodide or iodate in solution by catalytic spectrophotometry, with particular reference to river water. *Analyst* 100:111-123.
- Tseng F-Y, Rani CSS, Field JB. 1989. Effect of iodide on glucose oxidation and  $^{32}\text{P}$  incorporation into phospholipids stimulated by different agents in dog thyroid slices. *Endocrinology* 124(3):1450-1455.
- Tsuchiya T, Ito K, Murata M. 1996. [An evaluation of the incidence of hyperparathyroidism after  $^{131}\text{I}$  treatment for Basedow disease (Part I).] *Kaku Igaku* 33(7):729-735. (Japanese)

## 9. REFERENCES

- Tsuchiya Y, Saji M, Isozaki O, et al. 1990. Effect of lithium on deoxyribonucleic acid synthesis and iodide uptake in porcine thyroid cells in culture. *Endocrinology* 126(1):460-465.
- \*Tsukada H, Ishida J, Narita O. 1991. Particle-size distributions of atmospheric  $^{129}\text{I}$  and  $^{127}\text{I}$  aerosols. *Atmos Environ* 25A(5/6):905-908.
- \*Tsunoda A, Shibusawa M, Kamiyama G, et al. 2000. Iodine absorption after intraperative bowel irrigation with povidone-iodine. *Dis Colon Rectum* 43(8):1127-1132.
- \*Tsunogai S. 1971. Determination of iodine in sea water by an improved Sugawara method. *Anal Chim Acta* 55:444-447.
- Tsushima T, Arai M, Isozaki O, et al. 1994. Interaction of endothelin-1 with porcine thyroid cells in culture: A possible autocrine factor regulating iodine metabolism. *J Endocrinol* 142:463-470.
- Tsushima T, Arai M, Saji M, et al. 1988. Effects of transforming growth factor-beta on deoxyribonucleic acid synthesis and iodine metabolism in porcine thyroid cells in culture. *Endocrinology* 123:1187-1194.
- \*Tubiana M. 1982. Metabolism and radiotoxicity of radionuclides: Iodine. In: *Radionuclide: Metabolism and toxicity. Proceedings of the symposium. Paris, France: Masson, 49-81.*
- Tucker MA, Jones PHM, Boice JD, et al. 1991. Therapeutic radiation at a young age is linked to secondary thyroid cancer. *Cancer Res* 51:2885-2888.
- Tunbridge WMG, Evered DC, Hall R, et al. 1977. The spectrum of thyroid disease in a community: The Wickham survey. *Clin Endocrinol* 7:481-493.
- Tunbridge WMG, Harsoulis P, Goolden AWG. 1974. Thyroid function in patients treated with radioactive iodine for thyrotoxicosis. *Br Med J* 3:89-92.
- Turner FB, Martin WE. 1964. Food-chain relationships of iodine-131 in Nevada following the Sedan test of July 1962. Laboratory of Nuclear Medicine and Radiation Biology, University of California, Los Angeles, California. PNE-236f, Project 62.83.
- Tvedten HW, Till GO. 1985. Effect of povidone, povidone-iodine, and iodide on locomotion (in vitro) of neutrophils from people, rats, dogs, and rabbits. *Am J Vet Res* 46(8):1797-1800.
- Tyler DD. 1968. Influence of mitochondrial inhibitors on the respiration and energy-dependent uptake of iodide by thyroid slices. *Biochem J* 107:121-123.
- Tzen K-Y, Oster ZH, Wagner HJ, et al. 1980. Role of iron-binding proteins and enhanced capillary permeability on the accumulation of gallium-67. *J Nucl Med* 21(1):31-35.
- Uchida S, Muramatsu Y, Sumiya M, et al. 1991. Biological half-life of gaseous elemental iodine deposited onto rice grains. *Health Phys* 60(5):675-679.
- Uchimura H, Amir SM, Ingbar SH. 1979. Failure of organic iodine enrichment to influence the binding of bovine thyrotropin to rat thyroid tissue. *Endocrinology* 104:1207-1210.
- Ulmer DD. 1977. Trace elements. *N Engl J Med* 6:318-321.

## 9. REFERENCES

- Umans RS, Leski SA, Ts'o POP. 1969. Chemical linkage of carcinogenic 3,4-benzpyrene to DNA in aqueous solution induced by peroxide and iodine. *Nature* 221:763-764.
- Umeki K, Kotani T, Kawano J, et al. 2002. Two novel missense mutations in the thyroid peroxidase gene. R665W and G771R, result in a localization defect and cause congenital hypothyroidism. *Eur J Endocrinol* 146(4):491-498.
- Underwood EJ. 1971. Iodine. In: Trace elements in human and animal nutrition. New York, NY: Academic Press, 281-322.
- Unger J. 1989. Thionamides and iodide in iodine-induced thyrotoxicosis [Letter]. *Acta Clin Belg* 44(1):61.
- Unger J, Boeynaems JM, Van Herle A, et al. 1979. *In vitro* nonbutanol-extractable iodine release in dog thyroid. *Endocrinology* 105(1):225-231.
- Unger J, Surmont DWA, Sarot J, et al. 1989. 24 H-kinetics of iodide uptake in amiodarone induced hypothyroidism. *Thyroidology* 2:101-102.
- \*UNSCEAR. 1993. Sources, effect and risks of ionizing radiation. Report to the general assembly, New York: United Nations.
- \*UNSCEAR. 2000. Sources, effect and risks of ionizing radiation. Report to the general assembly, New York: United Nations. ANNEX J. Exposures and Effects of the Chernobyl Accident, 451-566.
- Untoro J, Schultink W, Gross R, et al. 1998. Efficacy of different types of iodized oil [Letter]. *Lancet* 351:752-753.
- Upton AC. 1981. Health impact of the Three Mile Island accident. *Ann N Y Acad Sci* 365:63-75.
- Ursu HI, Dumitriu L, Grigorie D, et al. 1993. Effects of radioiodine therapy in hyperthyroidism (thyroid function, thyroid volume, Graves' opthalmopathy, thyrotoxic heart disease). *Rom J Endocrinol* 31(3-4):155-163.
- Usala SJ. 1997. Thyroid hormone resistance syndromes. In: Falk SA, eds. *Thyroid disease: Endocrinology, surgery, nuclear medicine, and radiotherapy*. Philadelphia, PA: Lippincott-Raven Publishers, 223-230.
- \*USC. 2001. Listed precursor for controlled substance. U.S. Code. 21 USC 802. <http://www4.law.cornell.edu/uscode/21/802.text.html>. May 16, 2001.
- \*U.S. DHHS. 1985. SEER cancer incidence and mortality in the United States, 1973-1981. Publ No. 85-1837, Bethesda, MD.
- Usenko VS, Lepekhin EA, Kornilovska IN, et al. 1998. Immunohistochemical study of fibronectin and thyroglobulin in the thyroid gland of female rats after exposure to radioactive iodine. *Anat Rec* 252:600-607.
- Usenko V, Lepekhin E, Lyzogubov V, et al. 1999. The influence of low doses <sup>131</sup>I-induced maternal hypothyroidism on the development of rat embryos. *Exp Toxicol Pathol* 51:223-227.

## 9. REFERENCES

- \*USGS. 1984. Element concentrations in soils and other surficial materials of the conterminous United States. Washington, DC: United States Government Printing Office. U.S. Geological Survey Professional Paper 1270.
- \*USGS. 1998. Iodine. USGS Minerals Information. <http://minerals.usgs.gov/minerals/pubs/commodity/iodine/index.html>.
- \*USGS. 1999. Iodine. United States Geological Survey. <http://minerals.usgs.gov/minerals/pubs/commodity/iodine/770499.pdf>.
- \*USGS. 2001. Iodine. U.S. Geological Survey, Mineral Commodities Summaries. January 2001.
- \*USGS. 2002. Iodine. United States Geological Survey. <http://minerals.usgs.gov/minerals/pubs/commodity/iodine/770302.pdf>.
- \*USNRC. 1979. A dynamic model of the global iodine cycle for the estimation of dose to the world population from releases of iodine-129 to the environment. U.S. Nuclear Regulatory Commission, Division of Safeguards, Fuel Cycle, and Environmental Research. NUREG/CR-0717.
- \*USNRC. 1981. On the long-term behavior of <sup>129</sup>I in the terrestrial environment. U.S. Nuclear Regulatory Commission, Division of Safeguards, Fuel Cycle, and Environmental Research. IAEA-SDM-257.
- \*USNRC. 1984. Lower limit of detection: definition and elaboration of a proposed position for radiological effluent and environment measurements. Washington, D.C.: Nuclear Regulatory Commission. U.S. Report NUREG/ CR-4604.
- USNRC. 1987. Interpretative analysis of data for solute transport in the unsaturated zone. Washington, DC: U.S. Nuclear Regulatory Commission, Office of Nuclear Material Safety and Safeguards, Division of Waste Management. NUREG/CR-4737.
- \*USNRC. 1997. Minimum detectable concentrations with typical radiation survey instruments for various contaminants and field conditions. Nuclear Regulatory Commission. Rockville MD: NRC; U.S. Report NUREG-1507.
- \*USNRC. 2001a. Index of radioisotopes: Iodine. U.S. Nuclear Regulatory Commission. <http://www.nrc.gov>.
- \*USNRC. 2001b. Byproduct material list. U.S. Nuclear Regulatory Commission. <http://www.nrc.gov>.
- \*USNRC. 2001c. Packaging and transportation of radioactive material. Determination of A1 and A2. U.S. Nuclear Regulatory Commission. Code of Federal Regulations. 10 CFR 71, Appendix A. <http://ecfrback.access.gpo.gov/otcgi/cfr/otfilter.cgi>. May 16, 2001.
- \*USNRC. 2001d. Waste classification. U.S. Nuclear Regulatory Commission. Code of Federal Regulations. 10 CFR 61.55. <http://ecfrback.access.gpo.gov/otcgi/cfr>. May 16, 2001.
- \*USNRC. 2002. NRC Regulations. Appendix B. U.S. Nuclear Regulatory Commission. 10 CFR. <http://www.nrc.gov/reading-rm/doc-collections/cfr/part020/part020-appb.html>.

## 9. REFERENCES

- \*USNRC. 2003. NRC Regulations (10 CFR). Requirements binding on all persons and organizations who receive a license from NRC to use nuclear materials or operate nuclear facilities. Washington, D.C.: Nuclear Regulatory Commission. <http://www.nrc.gov/reading-rm/doc-collections/cfr>.
- Uy HL, Reasner CA, Samuels MH. 1995. Pattern of recovery of the hypothalamic-pituitary-thyroid axis following radioactive iodine therapy in patients with Graves' disease. *Am J Med* 99:173-179.
- \*Uyttersprot N, Pelgrims N, Carrasco N, et al. 1997. Moderate doses of iodide in vivo inhibit cell proliferation and the expression of thyroperoxidase and Na<sup>+</sup>/I<sup>-</sup> symporter mRNAs in dog thyroid. *Mol Cell Endocrinol* 131:195-203.
- Vadstrup S. 1989. Renal iodide clearance in rabbits. *Acta Endocrinol* 21:246-250.
- \*Vadstrup S. 1993. Comparative aspects of iodine conservation in mammals. *Comp Biochem Physiol* 106A(1):15-17.
- Vagenakis A, Abreau C, Braverman L. 1971a. Effect of tracer doses of <sup>131</sup>I on serum protein bound iodine and serum thyroxine concentration. *J Nucl Med* 12:637-638.
- Vagenakis AG, Braverman LE, Foster AE, et al. 1971b. Stimulatory effect of 5-fluorouracil in thyroid/serum iodide concentration ratios in the rat. *Endocrinology* 88:1250-1252.
- Vagenakis AG, Downs P, Braverman LE, et al. 1973. Control of thyroid hormone secretion in normal subjects receiving iodides. *J Clin Invest* 52:528-532.
- \*Vagenakis AG, Wang C-A, Burger A, et al. 1972. Iodide-induced thyrotoxicosis in Boston. *N Engl J Med* 287(11):523-527.
- Valenta LJ. 1974. Effect of iodide and thyrotrophin on in vitro <sup>14</sup>C-amino acid incorporation into rat thyroid proteins. *Acta Endocrinol* 76:273-285.
- van Best JA. 1981. Dose calculations for <sup>123</sup>I, <sup>124</sup>I, <sup>125</sup>I and <sup>131</sup>I in the thyroid gland of the mouse, rat and man and comparison with thyroid function for mice and rats. *Phys Med Biol* 26(6):1035-1053.
- Van Best JA. 1982. Comparison of thyroid function in mice after various injected activities of <sup>123</sup>I, <sup>125</sup>I and <sup>131</sup>I. *Int J Radiat Biol* 42(5):545-557.
- \*Vandecasteele CM, Van Hees M, Hardeman F, et al. 2000. The true absorption of <sup>131</sup>I, and its transfer to milk in cows given different stable iodine diets. *J Environ Radioact* 47(3):301-317.
- Vandenbroucke MF, Herveg JP, Beckers C, et al. 1967. Iodide uptake studies on isolated thyroid cells. *Arch Int Physiol Biochim* 75(1):185-186.
- van den Hove MF, Beckers C, Devlieger H, et al. 1999. Hormone synthesis and storage in the thyroid of human preterm and term newborns: Effect of thyroxine treatment. *Biochimie* 81:563-570.
- van der Heyden JTM, Docter R, van Toor H, et al. 1986. Effects of caloric deprivation on thyroid hormone tissue uptake and generation of low-T<sub>3</sub> syndrome. *Am J Physiol* 251(14):E156-E163.
- \*Vanderpas JB, Contempre B, Duale NL et al. 1990. Iodine and selenium deficiency associated with cretinism in Northern Zaire. *Am. J Clin. Nutr.* 52:1087-1093.

## 9. REFERENCES

\*Vanderpump MPJ, Tunbridge WMG. 2000. The epidemiology of thyroid diseases. In: Braverman LE, Utiger RD, eds. *Werner and Ingbar's the thyroid: A fundamental and clinical text*. 8<sup>th</sup> ed. Philadelphia, PA: Lippincott-Raven, 474-482.

Vanderpump MPJ, Ahlquist JAO, Franklyn JA, et al. 1996. Consensus statement for good practice and audit measures in the management of hypothyroidism and hyperthyroidism. *Br Med J* 313:539-544.

Van Der Willigen AH, Habets JMW, Van Joost T, et al. 1988. Contact allergy to Japanese sargassum. *Contact Dermatitis* 18(4):250-252.

\*Van Dilla MA, Fulwyler MJ. 1963. Thyroid metabolism in children and adults using very small (nanocurie) doses of iodine<sup>125</sup> and iodine<sup>131</sup>. *Health Phys* 9:1325-1331.

\*Van Dilla MA, Fulwyler MJ. 1964. Radioiodine metabolisms in children and adults after the ingestion of very small doses. *Science* 144:178-179.

Van Herle AJ, Van Herle KA. 1997. Thyroglobulin in benign and malignant thyroid disease. In: Falk SA, ed. *Thyroid disease: Endocrinology, surgery, nuclear medicine, and radiotherapy*. Philadelphia, PA: Lippincott-Raven Publishers, 587-599.

Van Middlesworth I. 1971. Persistence of <sup>125</sup>I in thyroid. *N Engl J Med* 286(3):161.

\*Van Middlesworth L. 1954. Radioactive iodide uptake of normal newborn infants. *Am J Dis Child* 88:439-442.

\*Van Middlesworth L. 1993. <sup>129</sup>I and <sup>137</sup>Cs fission products in thyroids of animals, 1984-1991. *Health Phys* 64(1):52-58.

Van Nostrand D, Neutze J, Atkins F. 1986. Side effects of "rational dose" iodine-131 therapy for metastatic well-differentiated thyroid carcinoma. *J Nucl Med* 27:1519-1527.

Van Sande J, Dumont JE. 1973. Effects of thyrotropin, prostaglandin E1 and iodide on cyclic 3',5'-AMP concentration in dog thyroid slices. *Biochim Biophys Acta* 313:320-328.

Van Sande J, Cochaux P, Mockel J, et al. 1983. Stimulation by forskolin of the thyroid adenylate cyclase, cyclic AMP accumulation and iodine metabolism. *Mol Cell Endocrinol* 29:109-119.

Van Sande J, Deneubourg F, Beauwens R, et al. 1990. Inhibition of iodide transport in thyroid cells by dysidenin, a marine toxin, and some of its analogs. *Mol Pharmacol* 37:583-589.

Van Sande J, Erneux C, Dumont JE. 1977. Negative control of TSH action by iodide and acetylcholine: Mechanism of action in intact thyroid cells. *J Cyclic Nucleotide Res* 3:335-345.

Van Sande J, Grenier G, Willems C, et al. 1975. Inhibition by iodide of the activation of the thyroid cyclic 3',5'-AMP system. *Endocrinology* 96:781-786.

Van Wyngaarden M, McDougall IR. 1996. What is the role of 1100 MBq (<30 mCi) radioiodine <sup>131</sup>I in the treatment of patients with differentiated thyroid cancer. *Nucl Med Commun* 17:199-207.

## 9. REFERENCES

- \*Vargo GJ. 2000. The Chernobyl accident: A comprehensive risk assessment. Columbus, OH: Battelle Press.
- Varma SK, Murray R, Stanbury JB. 1978. Effect of maternal hypothyroidism and triiodothyronine on the fetus and newborn in rats. *Endocrinology* 102(1):24-30.
- Varma VM, Beierwaltes WH, Nofal MM, et al. 1970. Treatment of thyroid cancer: Death rates after surgery and after surgery followed by sodium iodide I 131. *JAMA* 214(8):1437-1442.
- Varrone S, Consiglio E, Covelli I. 1970. The nature of inhibition of mitochondrial malate dehydrogenase by thyroxine, iodine cyanide and molecular iodine. *Eur J Biochem* 13:305-312.
- Vasilenko IY. 1980. Iodine isotopes in radiation hygiene. *J Hyg Epidemiol Microbiol Immunol* 24(2):142-149.
- \*Vasilenko IY. 1986. A radiation-hygienic appraisal of biosphere contamination with <sup>129</sup>I. *J Hyg Epidemiol Microbiol Immunol* 30:243-248.
- Vassilopoulou-Sellin R, Sellin JH. 1996a. The gastrointestinal tract and liver in hypothyroidism. In: Braverman LE, Utiger RD, eds. *Werner and Ingbar's the thyroid: A fundamental and clinical text*. Philadelphia, PA: Lippincott-Raven, 816-820.
- Vassilopoulou-Sellin R, Sellin JH. 1996b. The gastrointestinal tract and liver in thyrotoxicosis. In: Braverman LE, Utiger RD, eds. *Werner and Ingbar's the thyroid: A fundamental and clinical text*. Philadelphia, PA: Lippincott-Raven, 632-636.
- Vatulina GG. 1977. [Metabolic changes in rat muscle tissue under separate and combined exposure to Iodine 131 and Strontium 89.] *Radiobiologia* 17(5):728-732. (Russian)
- Vejjjajiva S, Poshyachinda M, Yenbutra D. 1979. <sup>131</sup>I treated hypothyroidism and thyroid antibody levels. *J Med Assoc Thai* 62(2):51-53.
- Veldhuis JD. 1978. <sup>131</sup>I-induced hypothyroidism before recurrence of hyperthyroidism. *Lancet* 1(8071):993-994.
- Velkeniers B, Cytryn R, Vanhaelst I, et al. 1988. Treatment of hyperthyroidism with radioiodine: Adjunctive therapy with antithyroid drugs reconsidered. *Lancet* 1:1127-1129.
- Venderpas JB, Rivera-Vanderpas MT, Bourdoux P, et al. 1986. Reversibility of severe hypothyroidism with supplementary iodine in patients with endemic cretinism. *N Engl J Med* 315(13):791-795.
- Venkataraman GM, Yatin M, Ain KB. 1998. Cloning of the human sodium-iodide symporter promoter and characterization in a differentiated human thyroid cell line, KAT-50. *Thyroid* 8(1):63-69.
- Venturi S, Donati FM, Venturi A, et al. 2000. Environmental iodine deficiency: A challenge to the evolution of terrestrial life? *Thyroid* 10(8):727-729.
- \*Verger P, Aurengo A, Geoffroy B, et al. 2001. Iodine kinetics and effectiveness of stable iodine prophylaxis after intake of radioactive iodine: A review. *Thyroid* 11(4):353-360.

## 9. REFERENCES

- \*Verma S, Hutchins P, Guo J et al. 2000. Role of MHC class I expression and CD8<sup>+</sup> T cells in the evolution of iodine-induced thyroiditis in NOHh2<sup>h4</sup> and NOS mice. *Eur J Immunol* 30:1191-1202.
- \*Verma KK, Jain A, Verma A. 1992. Determination of iodide by high-performance liquid chromatography after precolumn derivatization. *Anal Chem* 64:1484-1489.
- \*Versloot PM, Schroder-van der Elst JP, van der Heide D, et al. 1997. Effects of marginal iodine deficiency during pregnancy: Iodide uptake by the maternal and fetal thyroid. *Am J Physiol* 273:E1121-E1126.
- Versloot PM, Schroder-van der Elst JP, van der Heide D, et al. 1998. Effects of marginal iodine deficiency on thyroid hormone production, distribution and transport in nonpregnant and near-term pregnant rats. *Eur J Endocrinol* 138:713-718.
- Vestergaard H, Laurberg P. 1989. Radioiodine and aggravation of Graves' ophthalmopathy. *Lancet* 2(8653):47.
- Vetter RJ. 1997. Regulations for radioiodine therapy in the United States: Current status and the process of change. *Thyroid* 7(2):209-211.
- \*Vicens-Calvet E, Potau N, Carreras E, et al. 1998. Diagnosis and treatment in utero of goiter with hypothyroidism caused by iodide overload. *J Pediatr* 133:147-148.
- Vickery ALJ, Williams ED. 1971. Comparative biological effects of <sup>125</sup>I and <sup>131</sup>I on the rat thyroid. *Acta Endocrinol* 66:201-212.
- \*Vieira I, Sonnier M, Cresteil T. 1996. Developmental expression of *CYP2E1* in the human liver: Hypermethylation control of gene expression during the neonatal period. *Eur J Biochem* 238:476-483.
- Vieira JGH, Brandao CMA, Kasamatsu TS, et al. 1991. Parathyroid hormone secretory reserve in patients submitted to <sup>131</sup>I-iodine therapy for hyperthyroidism. *Braz J Med Biol Res* 24:1103-1105.
- Vilijn F, Carrasco N. 1989. Expression of the thyroid sodium/iodide symporter in *Xenopus laevis* oocytes. *J Biol Chem* 264(20):11901-11903.
- Villa SM, Alexander NM. 1987. Carbamazepine (Tegretol) inhibits in vivo iodide uptake and hormone synthesis in rat thyroid glands. *Endocr Res* 13(4):385-397.
- \*Virion A, Deme D, Pommier J, et al. 1980. Opposite effects of thiocyanate on tyrosine iodination and thyroid hormone synthesis. *Eur J Biochem* 112:1-7.
- \*Visser TJ. 1990. Importance of deiodination and conjugation in the hepatic metabolism of thyroid hormone. In: Greer MA, ed. *The thyroid gland*. New York, NY: Raven Press, Ltd, 255-283.
- \*Visser TJ. 1994. Role of sulfation in thyroid hormone metabolism. *Chem Biol Interact* 92:293-303.
- \*Visser TJ, Kaptein E, van Raaij JAGM, et al. 1993. Multiple UDP-glucuronyltransferases for the glucuronidation of thyroid hormone with preference for 3,3',5'-triiodothyronine (reverse T<sub>3</sub>). *FEBS Lett* 315(1):65-68.



## 9. REFERENCES

- Vobecky M, Babicky A, Lener J, et al. 1997. [Environmental bromine and iodine interaction.] *Hygiena* 42(2):86-91. (Czech)
- \*Vogt R, Sander R, Von Glasgow R, et al. 1999. Iodine chemistry and its role in halogen activation and ozone loss in the marine boundary layers: A model study. *J Atmos Chem* 32:375-395.
- Voigt G. 1993. Chemical methods to reduce the radioactive contamination of animals and their products in agricultural ecosystems. *Sci Total Environ* 137:205-225.
- \*Voigt G, Henrichs K, Prohl G, et al. 1988. Measurements of transfer coefficients from  $^{137}\text{Cs}$ ,  $^{60}\text{Co}$ ,  $^{54}\text{Mn}$ ,  $^{22}\text{Na}$ ,  $^{131}\text{I}$  and  $^{95\text{m}}\text{Tc}$  from feed into milk and beef. *Radiat Environ Biophys* 27:143-152.
- \*Voigt G, Muller H, Prohl G, et al. 1989. Experimental determination of transfer coefficients of  $^{137}\text{Cs}$  and  $^{131}\text{I}$  from fodder into milk of cows and sheep after the Chernobyl accident. *Health Phys* 57(6):967-973.
- Voigt G, Schotola C, Probstmeier G, et al. 1994. Influence of stable iodine on the transfer of  $^{131}\text{I}$  into cows' milk. *Radiat Environ Biophys* 33:243-250.
- Volkov AA, Iulbarisov AV, Zaitsev VM, et al. 1982. [Use of sodium iodide labeled with short-lived  $^{123}\text{I}$  for the study of the iodine absorption and topography of the thyroid.] *Med Radiol* 27(2):34-36. (Russian).
- Voltti H, Piha RS. 1978. Iodine in the treatment of alloxan diabetes in rats. *Isr J Med Sci* 14(10):1081-1083.
- Voltti H, Piha RS, Alavaikko M, et al. 1973. Antitumour activity of iodine in acidic medium with calcium. *Nature* 246:98-100.
- Von Hofe SE, Dorfman SG, Carretta RF, et al. 1978. The increasing incidence of hypothyroidism within one year after radioiodine therapy for toxic diffuse goiter. *J Nucl Med* 19:180-184.
- \*Von Zallinger C, Tempel K. 1998. Transplacental transfer of radionuclides. A review. *Zentralbl Veterinarmed A* 45:581-590.
- Vorhees CV, Butcher RE, Brunner RL. 1984. Developmental toxicity and psychotoxicity of potassium iodide in rats: A case for the inclusion of behaviour in toxicological assessment. *Food Chem Toxicol* 22(12):963-970.
- Vorherr H, Vorherr UF, Mehta P, et al. 1980. Vaginal absorption of povidone-iodine. *JAMA* 244(23):2628-2629.
- Vormittag W, Ring F, Kunze-Muhl E, et al. 1982. Structural chromosomal aberrations before and after administration of 20 uCi iodine-131. *Mutat Res* 105:333-336.
- \*Vought RL, Brown FA, Wolff J. 1972. Erythrosine: An adventitious source of iodide. *Journal of Clinical Endocrinology and Metabolism* 34:747-752.
- \*Vroye L, Beauwens R, Van Sande J, et al. 1998. The  $\text{Na}^+ - \text{I}^-$  cotransporter of the thyroid: Characterization of new inhibitors. *Pflugers Arch(Eur J Physiol)* 435:259-266.

## 9. REFERENCES

- Vulsma T, Menzel D, Abbad FCB, et al. 1990. Iodine-induced hypothyroidism in infants treated with continuous cyclic peritoneal dialysis [Letter]. *Lancet* 336:812.
- Vulsma T, Rammeloo JA, Gons MH, et al. 1991. The role of serum thyroglobulin concentration and thyroid ultrasound imaging in the detection of iodide transport defects in infants. *Acta Endocrinol* 124:405-410.
- Vykhovanets EV, Chernyshov VP, Slukvin II, et al. 1997. <sup>131</sup>I dose-dependent thyroid autoimmune disorders in children living around Chernobyl. *Clin Immunol Immunopathol* 84(3):251-259.
- Wachholz BW. 1990. Overview of the National Cancer Institute's activities related to exposure of the public to fallout from the Nevada test site. *Health Phys* 59(5):511-514.
- Wadeleux PA, Etienne-Decerf J, Winand RJ, et al. 1978. Effects of thyrotropin on iodine metabolism of dog thyroid cells in tissue culture. *Endocrinology* 102(3):889-902.
- Wagar G. 1971. Increase in thyroid uptake of radioiodine induced by actinomycin D. *Acta Endocrinol* 67:605-615.
- \*Wagner HN, Nelp WB, Dowling JH. 1961. Use of neutron activation analysis for studying stable iodide uptake by the thyroid. *J Clin Invest* 40:1984-1992.
- Wahl VR, Oekonomopoulos R, Steiner B, et al. 1973. Einflub von diijofphenolsulfonsaure (DJPS) auf den jodstoffwechsel der ratte und auf die bindung von thyroxin an humanserumpraalbumin. *Arzneim Forsch* 23(8):1009-1014.
- Wahlberg P. 1976a. Thyrotoxicosis induced by iodine in food [Letter]. *Br Med J* 2(6043):1070.
- Wahlberg P. 1976b. Thyrotoxicosis induced by iodine in food [Letter]. *Br Med J* 1(6016):1016.
- Wakeford R. 1999. Accidents and their consequences. *J Radiol Prot* 19(4):291-292.
- Waldhausen JHT. 1997. Controversies related to the medical and surgical management of hyperthyroidism in children. *Semin Pediatr Surg* 6(3):121-127.
- Waldstein SS. 1997. Replacement and suppressive treatment with thyroid hormone. In: Falk SA, ed. *Thyroid disease: Endocrinology, surgery, nuclear medicine, and radiotherapy*. Philadelphia, PA: Lipponcott-Raven Publishers, 475-494.
- Walgraeve D, Verhoef G, Stul M, et al. 1991. Chronic myelogenous leukemia after treatment with <sup>131</sup>I for thyroid carcinoma: Report of a case and review of the literature. *Cancer Genet Cytogenet* 55:217-224.
- Walicka MA, Adelstein SJ, Kassis AI. 1998. Indirect mechanisms contribute to biological effects produced by decay of DNA-incorporated iodine-125 in mammalian cells *in vitro*: Clonogenic survival. *Radiat Res* 149:142-146.
- Walinder G. 1971. Determination of the <sup>131</sup>I dose to the mouse thyroid. *Acta Radiol Ther Phys Biol* 10:558-578.

## 9. REFERENCES

- Walinder G. 1972. Quantitative effects of  $^{131}\text{I}$  on different tissue components in foetal and goitrogen challenged mouse thyroids. *Acta Radiol* 11:1-23.
- Walinder G, Feinstein RE, Gimeno EJ. 1986. Effect of high  $^{131}\text{I}$  doses on the bone uptake and retention of  $^{90}\text{Sr}$  and  $^{90}\text{Y}$ . *Acta Radiol Oncol* 25:255-260.
- Walls RP. 1976. The characteristics and physiologic implications of the interaction of iodide with human erythrocytes. *Diss Abstr Int B* 36(11):5542-B.
- \*Walser M, Rahill WJ. 1965. Renal tubular reabsorption of iodide as compared with chloride. *J Clin Invest* 44(8):1371-1381.
- Walsh JP, Dayan CM, Potts MJ. 1999. Radioiodine and thyroid eye disease. *Br Med J* 319:68-69.
- Walthard VB. 1963. [Structural change of the struma maligna with respect to iodine prophylaxis of goiter.] *Schweiz Med Wochenschr* 93(23):809-814. (German)
- Wang JF, Becks GP, Hanada E, et al. 1991. Hormonal regulation of insulin-like growth factor (IGF)-binding proteins secreted by isolated sheep thyroid epithelial cells: Relationship with iodine organification. *J Endocrinol* 130:129-140.
- Wang J-X, Boice JD, Li B-X, et al. 1988. Cancer among medical diagnostic x-ray workers in China. *Journal of the National Cancer Institute* 80:344-350.
- Wang Z, Boice JD, Wei L, et al. 1990. Thyroid nodularity and chromosome aberrations among women in areas of high background radiation in China. *J Natl Cancer Inst* 82:478-485.
- \*Waran KD, Munsick RA. 1995. Anaphylaxis from povidone-iodine. *Lancet* 345:1506.
- Warner TFCS. 1979. Iodine-131 and malignancy [Letter]. *Lancet* 1(8106):38.
- Warters RL. 1977. 125-Iodine: A probe in radiobiology [Abstract]. *Diss Abstr Int B* 38(4):1598B.
- Warters RL, Hofer KG. 1977. Radionuclide toxicity in cultured mammalian cells: Elucidation of the primary site for radiation-induced division delay. *Radiat Res* 69:348-358.
- Warters RL, Hofer KG, Harris CR, et al. 1977. Radionuclide toxicity in cultured mammalian cells: Elucidation of the primary site of radiation damage. *Curr Top Radiat Res Q* 12:389-407.
- Wartofsky L. 1995. Summation, commentary, and overview: Concerns over aggravation of Graves' ophthalmopathy by radioactive iodine treatment and the use of retrobulbar radiation therapy. *J Clin Endocrinol Metab* 80(2):347-349.
- Wartofsky L. 1996a. Myxedema coma. In: Braverman LE, Utiger RD, eds. *Werner and Ingbar's the thyroid: A fundamental and clinical text*. Philadelphia, PA: Lippincott-Raven, 871-877.
- Wartofsky L. 1996b. Thyrotoxic storm. In: Braverman LE, Utiger RD, eds. *Werner and Ingbar's the thyroid: A fundamental and clinical text*. Philadelphia, PA: Lippincott-Raven, 701-707.
- Wartofsky L. 1997. Radioiodine therapy for Graves' disease: Case selection and restrictions recommended to patients in North America. *Thyroid* 7(2):213-216.

## 9. REFERENCES

- Wasserman HJ, Klopper JF. 1993. Analysis of radiation doses received by the public from  $^{131}\text{I}$  treatment of thyrotoxic outpatients. *Nucl Med Commun* 14:756-760.
- Wasserman J, Blomgren H, Petrini B, et al. 1988. Changes of the blood lymphocyte subpopulations and their functions following  $^{131}\text{I}$  treatment for nodular goitre and  $^{32}\text{P}$  treatment for polycythemia vera. *Int J Radiat Biol* 53(1):159-167.
- Wassermann M, Wassermann D, Kedar E, et al. 1972. Effects of dieldrin and gamma BHC on serum proteins and PBI. *Bull Environ Contam Toxicol* 8(3):177-185.
- Watanabe N, Yokoyama K, Kinuya S, et al. 1998. Radiotoxicity after iodine-131 therapy for thyroid cancer using the micronucleus assay. *J Nucl Med* 39(3):436-440.
- Waterfall WK. 1980. Iodide. *Br Med J* 281:988-989.
- Waters W, Kutsim H, Wellner U. 1984. The influence of elevated iodide supply on the autonomously functioning thyroid gland. *Nuklearmedizin* 23:93-99.
- Watson AB, Brownlie BEW, Frampton CM, et al. 1988. Outcome following standardized 185 MBq dose  $^{131}\text{I}$  therapy for Graves' disease. *Clin Endocrinol* 28:487-496.
- \*Wayne EJ, Koutras DA, Alexander WD. 1964. Clinical aspects of iodine metabolism. Philadelphia, PA: F.A. Davis Company.
- Weber G, Vigone MC, Rapa A, et al. 1998. Neonatal transient hypothyroidism: Aetiological study. *Arch Dis Child* 79:F70-F72.
- \*Weetman AP. 2000. Chronic autoimmune thyroiditis. In: Braverman LE, Utiger RD, eds. *Werner and Ingbar's the thyroid: A fundamental and clinical text*. 8<sup>th</sup> ed. Philadelphia, PA: Lippincott-Raven, 721-732.
- \*Wehmann G. 1963. Comparison of ingestion to inhalation dose to man from  $\text{I}^{131}$ . *Health Physics* 9:1221.
- \*Weinberg HG, Yamada H. 1997. Sub part-per-billion analysis of bromate, iodate, and chlorite in drinking water using a new post ion chromatography column reaction and UV detection. In: *Water quality technology conference proceedings, November 9-12, 1997, Denver, Co., 4B1/1-4B1/13*.
- Weinreich R. 1984. Iodine-124 in nuclear medicine: A critical evaluation. *Radiakt Isot Klin Forsch* 16(2):555-563.
- \*Weiss SJ, Philp NJ, Ambesi-Impiombato FS, et al. 1984a. Thyrotropin-stimulated iodide transport mediated by adenosine 3',5'-monophosphate and dependent on protein synthesis. *Endocrinology* 114(4):1099-1107.
- \*Weiss SJ, Philip NJ, Grollman EF. 1984b. Effect of thyrotropin on iodide efflux in FRTL-5 cells mediated by  $\text{Ca}^{2+}$ . *Endocrinology* 114:1108-1113.
- Weiss WJ, Philp NJ, Grollman EF. 1984c. Iodide transport in a continuous line of cultured cells from rat thyroid. *Endocrinology* 114:1090-1098.

## 9. REFERENCES

- \*Wellner U, Eschner W, Hillger HW, et al. 1998. [The exposure of relatives to patients of a nuclear medicine ward after radio iodine therapy by inhalation of  $^{131}\text{I}$  in their home.] *Nuklearmedizin* 37:113-119. [Erratum published in "*Nuklearmedizin* 37(4):49 (1998)" attached] (German)
- Werner SC, Hamilton HB, Leifer E, et al. 1950. An appraisal of the radioiodine tracer technic as a clinical procedure in the diagnosis of thyroid disorders: Uptake measurement directly over the gland and a note on the use of thyrotropin (T.S.H.). *J Clin Endocrinol* 10:1054-1076.
- \*West JR, Smith HW, Chasis H. 1948. Glomerular filtration rate, effective renal blood flow, and maximal tubular excretory capacity in infancy. *J Pediatr* 32:10-18.
- Whaley JM, Little JB. 1990. Efficient mutation induction by  $^{125}\text{I}$  and  $^{131}\text{I}$  decays in DNA of human cells. *Radiat Res* 123:68-74.
- \*Whitehead DC. 1979. Iodine in the U.K. environment with particular reference to agriculture. *J Appl Ecol* 16:269-279.
- \*Whitehead DC. 1984. The distribution and transformations of iodine in the environment. *Environ Int* 10:321-339.
- \*Whitnack GC. 1975. Single-sweep polarographic techniques useful in micropollution studies of ground and surface waters. *Anal Chem* 47:618-621.
- Whybrow PC. 1972. Synergistic action between iodine and lithium [Letter]. *JAMA* 221(5):506.
- Whybrow PC. 1996a. Behavioral and psychiatric aspects of hypothyroidism. In: Braverman LE, Utiger RD, eds. *Werner and Ingbar's the thyroid: A fundamental and clinical text*. Philadelphia, PA: Lippincott-Raven, 866-870.
- Whybrow PC. 1996b. Behavioral and psychiatric aspects of thyrotoxicosis. In: Braverman LE, Utiger RD, eds. *Werner and Ingbar's the thyroid: A fundamental and clinical text*. Philadelphia, PA: Lippincott-Raven, 696-700.
- \*Wichers M, Benz E, Palmedo H, et al. 2000. Testicular function after radioiodine therapy for thyroid carcinoma. *Eur J Nucl Med* 27(5):503-507.
- \*Widdowson EM, Dickerson JWT. 1964. Chemical composition of the body. In: Comar CL, Bronner F, eds. *Mineral metabolism: An advanced treatise*. Volume II: The elements Part A. New York, NY: Academic Press.
- Wiener JD, Thijs LG, Meijer S. 1975. Thyroid carcinoma after  $^{131}\text{I}$  treatment for hyperthyroidism. *Acta Med Scand* 198:329-330.
- Wiersinga WM. 1998. Preventing Graves' ophthalmopathy. *N Engl J Med* 338(2):121-122.
- Wiesefeld D, Webster G, Cameron F, et al. 1983. Salivary gland dysfunction following radioactive iodine therapy. *Oral Surg Oral Med Oral Pathol* 55(2):138-141.
- Wilkin JK, Strobel D. 1985. Iododerma occurring during thyroid protection treatment. *Cutis* 36(4):335-337.

## 9. REFERENCES

- \*Willard DH, Bair WJ. 1961. Behaviour of  $I^{131}$  following its inhalation as a vapour and as a particle. *Acta Radiol* 55:486-496.
- Williams ED. 1990. TSH and thyroid cancer. *Horm Metab Res suppl* 23:72-75.
- Williams ED, Doniach I, Bjarnason O, et al. 1977. Thyroid cancer in an iodide rich area. *Cancer* 39:215-222.
- \*Williams JA. 1969. Electrical polarization of thyroid follicles in the perfused rabbit thyroid gland. *Am J Physiol* 217(4):1094-1100.
- Williams JA, Malayan SA. 1975. Effects of TSH on iodide transport by mouse thyroid lobes *in vitro*. *Endocrinology* 97:162-168.
- Williams JA, Berens SC, Wolff J. 1971. Thyroid secretion *in vitro*: Inhibition of TSH and dibutyryl cyclic-AMP stimulated and  $^{131}I$  release by  $Li^{+1}$ . *Endocrinology* 88:1385-1388.
- Williams RL, Lipari F, Potter RA. 1990. Formaldehyde, methanol and hydrocarbon emissions from methanol-fueled cars. *J Air Waste Manage Assoc* 40:747-756.
- Wilmott S, Nair S, Ponting AC. 1991. An uncertainty analysis of the ingestion dose following a discrete deposition from atmosphere. *EUR EUR* 13013/2:891-907.
- Wilson LM, Barrington SF, Morrison ID, et al. 1998. Therapeutic implications of thymic uptake of radioiodine in thyroid carcinoma. *Eur J Nucl Med* 25:622-628.
- Wilson MG. 1962. The effect of maternal medications upon the fetus and the newborn infant. *Am J Obstet Gynecol* 83(6):818-825.
- Wilson O, Stone JM, Monty DE. 1983. Long-term study of thyroid function in healthy beagle dogs, using  $^{125}I$ . *Am J Vet Res* 44(7):1392-1398.
- Wingert DJ, Friesen SR, Iliopoulos JI, et al. 1986. Post-thyroidectomy hypocalcemia. *Am J Surg* 152:606-610.
- Winslow CP, Meyers AD. 1998. Hypocalcemia as a complication of radioiodine therapy. *Am J Otolaryngol* 19(6):401-403.
- Winternitz SR, Winternitz WW. 1976. Fatal hypothyroidism following treatment of Graves' disease: A preventable complication. *J Ky Med Assoc* 74(9):459-460.
- Winters JC, Fuselier HAJ. 1992. Invasive bladder cancer following  $^{125}I$  iodine implants. *J Urol* 148:1898-1900.
- Wiseman JC, Hales IB, Joasoo A. 1982. Two cases of lymphoma of the parotid gland following ablative radioiodine therapy for thyroid carcinoma. *Clin Endocrinol* 17:85-89.
- Wiszniewska B, Marchlewicz M, Piasecka M, et al. 1998. Phospholipid content and lamellar structures in the epididymal epithelial cells of rats treated chronically with lead acetate [Pb(II)]. *Folia Biol* 46:215-224.

## 9. REFERENCES

Wolf M, Leventon G. 1990. Acute iodide-induced enlargement of the salivary glands. *J Oral Maxillofac Surg* 48:71-72.

\*Wolff J. 1964. Transport of iodide and other anions in the thyroid gland. *Physiol Rev* 44:45-90.

Wolff J. 1980. Physiological aspects of iodide excess in relation to radiation protection. *J Mol Med* 4:151-165.

\*Wolff J. 1983. Congenital goiter with defective iodide transport. *Endocrine Rev* 4(3):240-254.

Wolff J. 1989. Excess iodide inhibits the thyroid by multiple mechanisms. *Adv Exp Med Biol* 261:211-244.

Wolff J. 1996. Iodide prophylaxis for reactor accidents. In: Nagataki S, Yamashita S, eds. *Nagasaki symposium radiation and human health*. Amsterdam, The Netherlands: Elsevier Science, 227-237.

\*Wolff J, Chaikoff IL. 1948. Plasma inorganic iodide as a homeostatic regulator of thyroid function. *J Biol Chem* 74:555-564.

\*Wolff J, Chaikoff IL, Goldberg RC, et al. 1949. The temporary nature of the inhibitory action of excess iodide on organic iodine synthesis in the normal thyroid. *Endocrinol* 45:504-513.

Wollman SH. 1995. Thyroid radioiodide transport: Models, rate-limiting steps, and relation to formation of iodoprotein. *Eur J Cell Biol* 66:217-225.

Wollman SH, Reed FE. 1959. Transport of radioiodide between thyroid gland and blood in mice and rats. *Am J Physiol* 196(1):113-120.

Wondisford FE, Magner JA, Weintraub BD. 1996. Thyrotropin: Chemistry and biosynthesis of thyrotropin. In: Braverman LE, Utiger RD, eds. *Werner and Ingbar's the thyroid: A fundamental and clinical text*. Philadelphia, PA: Lippincott-Raven, 190-207.

\*Wong FL, Ron E, Gierlowski T, et al. 1996. Benign thyroid tumors: General risk factors and their effects on radiation risk estimation. *Am J Epidemiol* 144:728-733.

\*Wong GTF, Cheng X-H. 1998. Dissolved organic iodine in marine waters: Determination, occurrence and analytical implications. *Mar Chem* 59:271-281.

Wongphatarakul V, Friedlander SK, Pinto JP. 1998. A comparative study of PM<sub>2.5</sub> ambient aerosol chemical databases. *Environ Sci Technol* 32:3926-3934.

\*Wood DH, Elefson EE, Horstman VG, et al. 1963. Thyroid uptake of radioiodine following various routes of administration. *Health Phys* 9:1217-1220.

\*Woodbury DM, Woodbury JW. 1963. Correlation of micro-electrode potential recordings with histology of rat and guinea-pig thyroid glands. *J Physiol* 169:553-567.

Woolf PD. 1997. Thyroiditis. In: Falk SA, ed. *Thyroid disease: Endocrinology, surgery, nuclear medicine, and radiotherapy*. Philadelphia, PA: Lippincott-Raven Publishers, 393-410.

## 9. REFERENCES

- Worley RJ, Crosby WM. 1974. Hyperthyroidism during pregnancy. *Am J Obstet Gynecol* 119(2):150-155.
- Worthington-Roberts B. 1997. The role of maternal nutrition in the prevention of birth defects. *J Am Diet Assoc* 97(Suppl 2):S184-S185.
- Wright EM. 1974. Active transport of iodide and other anions across the choroid plexus. *J Physiol* 240:535-566.
- Wu JY, Shu SG, Yang CF, et al. 2002. Mutation analysis of thyroid peroxidase gene in Chinese patients with total iodide organification defect: Identification of five model mutations. *J Endocrinol* 172(3):627-635.
- Wuttke K, Streffer C, Muller WU, et al. 1996. Micronuclei in lymphocytes of children from the vicinity of Chernobyl before and after  $^{131}\text{I}$  therapy for thyroid cancer. *Int J Radiat Biol* 69(2):259-268.
- Wyburn JR. 1972. Human breast milk excretion of radionuclides following administration of radiopharmaceuticals. *J Nucl Med* 14(2):115-117.
- Xiangbao L, Yangzhong X. 1992. Relationship between  $^{131}\text{I}$  ground surface contamination activity and gamma spectra above ground. *Health Phys* 62(4):328-331.
- \*Xie Y-L, Hopke PK, Paatero P, et al. 1999. Identification of source nature and seasonal variations of Arctic aerosol by the multilinear engine. *Atmos Environ* 33:2549-2562.
- Yadav HS, Chaudhuri BN, Mukherjee SK. 1970. Effect of ethyl alcohol on thyroidal iodide trapping and renal clearance of  $^{131}\text{I}$  label in rats. *Indian J Med Res* 58:1421-1427.
- Yalow RS. 1983. Risks in mass distribution of potassium iodide. *Bull N Y Acad Med* 59(10):1020-1027.
- Yalow R. 1990. Editorial: The contributions of  $^{131}\text{I}$  to the understanding of radiation carcinogenesis. *Endocrinology* 126(4):1787-1789.
- Yamamoto K, Onaya T, Yamada T, et al. 1972. Inhibitory effect of excess iodide on thyroid hormone release as measured by intracellular colloid droplets. *Endocrinology* 90:986-991.
- Yamane T, Yan Y, Yang L, et al. 1992. Tissue developmental anomalies of Corti's organ of the inner ear in experimental cretin rats [Abstract]. *Teratology* 46(6):44B.
- Yamashita H, Noguchi S, Murakami N, et al. 1994. Effect of thyroid-stimulating hormone on cultured thyrocytes obtained from patients with Graves' disease and inhibitive effect by sodium iodide: A functional study. *Pathol Int* 44:827-831.
- Yamashita K, Aiyoshi Y, Oka K, et al. 1975. Effects of calcium ionophore (A-23187) on glucose oxidation and iodide transport in dog thyroid slices. *Endocrinol Jpn* 22(5):415-418.
- Yamashita S, Ito M, Namba H, et al. 1996. Screening for childhood thyroid diseases around Chernobyl. In: Nagasaki S, Yamashita S, eds. *Nagasaki symposium radiation and human health: Proposal from Nagasaki*. Amsterdam, The Netherlands: Elsevier, 103-116.



## 9. REFERENCES

- Yan T, Wang D, Zhang H, et al. 1994. Effect of iodine deficiency on the development of cerebral cells in rats. *Teratology* 50(6):49B.
- Yan Y, Liu J, Yamane T, et al. 1993. Developmental anomalies of cerebellar cortex in experimental cretin rats [Abstract]. *Teratology* 48(5):531.
- Yang CM, Olsen KR, Schwade JG, et al. 1993. Dose rate effect of  $^{125}\text{I}$  irradiation on normal rabbit eyes and experimental choroidal melanoma. *Exp Eye Res* 57:577-585.
- Yasui LS. 1992. Cytotoxicity of  $^{125}\text{I}$  decay in the DNA double strand break repair deficient mutant cell line, xrs-5. *Int J Radiat Biol* 62(5):613-618.
- Yasui LS, Hofer KG. 1986. Role of mitochondrial DNA in cell death induced by  $^{125}\text{I}$  decay. *Int J Radiat Biol* 49(4):601-610.
- Yeh SDJ, La Quaglia MP. 1997.  $^{131}\text{I}$  therapy for pediatric thyroid cancer. *Semin Pediatr Surg* 6(3):128-133.
- Yi T. 1995. A case of blindness caused by acute iodine poisoning. *Chin Med J* 108(7):555-556.
- Yiou F, Raisbeck GM, Christensen GC, et al. 2002.  $^{129}\text{I}/^{127}\text{I}$ ,  $^{129}\text{I}/^{137}\text{Cs}$  and  $^{129}\text{I}/^{99}\text{Tc}$  in the Norwegian coastal current from 1980 to 1998. *J Environ Radioact* 60:61-71.
- Yokoyama N, Tominaga T, Eishima K, et al. 1991. Effect of iodide on human thyroid peroxidase in thyroid cells. In: Gordon A, Gross J, Hennemann G, eds. *Progress in thyroid research*. Rotterdam, the Netherlands: Balkema, 483-485.
- Yoosufani Z, Slavin JD, Hellman RM, et al. 1987. Preleukemia following large dose radioiodide therapy for metastatic thyroid carcinoma. *J Nucl Med* 28:1348-1350.
- \*Yoshida A, Sasaki N, Mori A, et al. 1997. Different electrophysiological character of  $\text{I}^-$ ,  $\text{ClO}_4^-$ , and  $\text{SCN}^-$  in the transport by  $\text{NA}^+/\text{I}^-$  symporter. *Biochem Biophys Res Commun* 231:731-734.
- \*Yoshida A, Taniguchi S, Hisatome I, et al. 2002. Pendrin is an iodide-specific apical porter responsible for iodide efflux from thyroid cells. *J Clin Endocrinol Metab* 87(7):3356-3361.
- Yoshida K, Aizawa Y, Kaise N, et al. 1998. Role of thyroid-stimulating blocking antibody in patients who developed hypothyroidism with one year after  $^{131}\text{I}$  treatment for Graves' disease. *Clin Endocrinol* 48:17-22.
- Yoshimura S, Shishiba Y, Shimizu T. 1973. Evidence for stimulation of thyroidal secretion by iodoaminoacids or iodide. *Endocrinol Jpn* 20(2):217-219.
- Yoshinari M, Tokuyama T, Okamura K, et al. 1988. Iodide-induced thyrotoxicosis in a thyroidectomized patient with metastatic thyroid carcinoma. *Cancer* 61:1674-1678.
- \*Young WF. 1990. Human liver tyrosylsulfotransferase. *Gastroenterology* 99:1072-1078.
- \*Yuita K. 1994a. Overview and dynamics of iodine and bromine in the environment: 1. Dynamics and iodine and bromine in soil-plant system. *JARQ* 28:90-99.

## 9. REFERENCES

- Yuita K. 1994b. Overview and dynamics of iodine and bromine in the environment: 2. Iodine and bromine toxicity and environmental hazards. *JARQ* 28:100-111.
- Yukimura Y, Ikejiri K, Kojima A, et al. 1976. Effects of excess iodide and other anions on thyroid hormone secretion in normal or hypophysectomized rats treated with graded doses of thyroid hormone. *Endocrinology* 99:541-548.
- Zagrodzki P, Nicol F, McCoy MA, et al. 1998. Iodine deficiency in cattle: Compensatory changes in thyroidal selenoenzymes. *Res Vet Sci* 64(3):209-211.
- Zagrodzki P, Szmigiel H, Ratajczak R, et al. 2000. The role of selenium in iodine metabolism in children with goiter. *Environ Health Perspect* 108(1):67-71.
- Zanzonico PB. 1997. Radiation dose to patients and relatives incident to  $^{131}\text{I}$  therapy. *Thyroid* 7(2):199-204.
- \*Zanzonico PB, Becker DV. 2000. Effects of time of administration and dietary iodine levels on potassium iodide (KI) blockade of thyroid irradiation by  $^{131}\text{I}$  from radioactive fallout. *Health Phys* 78(6):660-667.
- Zanzonico PB, Becker DV, Bigler RE, et al. 1987. Fetal radiation dosimetry for maternally administered I131-iodide: Effect of maternal thyroid function. *J Nucl Med* 28(4):581.
- Zec N, Donovan JW. 1993. Reply to letter. *N Engl J Med* 328(5):356.
- Zeighami EA, Morris MD. 1986. Thyroid cancer risk in the population around the Nevada test site. *Health Phys* 50(1):19-32.
- Zelicoff AP, Pezzullo JC. 2002. Thyroid cancer 15 years after Chernobyl. *Lancet* 359(9321):1946-1947.
- \*Zemlyn S, Wilson WW, Hellweg PA. 1981. A caution on iodine water purification. *West J Med* 135:166-167.
- Zhang M-L, Sugawa H, Mori T. 1995. Inhibition of thyrocyte iodide uptake by  $\text{H}^+\text{K}^+\text{ATPase}$  inhibitor, timoprazole. *Endocr J (Tokyo)* 42(4):489-496.
- \*Zhao J, Wang P, Shang L, et al. 2000. Endemic goiter associated with high iodine intake. *Am J Public Health* 90(10):1633-1635.
- Zhao W, Zhu H, Yu Z, et al. 1998. Long-term effects of various iodine and fluorine doses on the thyroid and fluorosis in mice. *Endocr Regul* 32:63-70.
- Zhorno LI, Il'in BN, Mikhaidarova PP. 1982. [Morphofunctional changes in the thyroid after separate and combined exposure to iodine radioisotope.] *Radiobiologiya* 22(4):553-556. (Russian)
- Zhu X, Lu T, Song X, et al. 1984. Endemic goiter due to iodine rich salt and its pickled vegetables. *Chin Med J* 97(7):545-548.
- \*Ziegler EE, Edwards BB, Jensen RL, et al. 1978. Absorption and retention of lead by infants. *Pediatr Res* 12:29-34.

## 9. REFERENCES

- Zimmermann M, Adou P, Torresani T, et al. 2000. Persistence of goiter despite oral iodine supplementation in goitrous children with iron deficiency anemia in Cote d'Ivoire. *Am J Clin Nutr* 71(1):88-93.
- Zsebok Z, Baumgartner E. 1978. [Chromosomal changes following irradiation with small doses (author's translation).] *Fortschr Geb Rontgenstrahlen Nuklearmed Ergänzungsbd* 129(6):781-784. (German)
- Zuckier LS, Dadachova E, Dohan O, et al. 2001. The endogenous mammary gland Na<sup>+</sup>/I<sup>-</sup> symporter may mediate effective radioiodide therapy in breast cancer. *J Nucl Med* 42(6):987-988.
- Zuckier LS, Li Y, Chang CJ. 1998. Evaluation in a mouse model of a thyroid-blocking protocol for <sup>131</sup>I antibody therapy (short communication). *Cancer Biother Radiopharm* 13(6):457-460.
- Zuker CS, Cowman AF, Rubin GM. 1985. Isolation and structure of a rhodopsin gene from *D. melanogaster*. *Cell* 40:851-858.
- Zvonova IA. 1989. Dietary intake of stable I and some aspects of radioiodine dosimetry. *Health Phys* 57(3):471-475.
- Zvonova IA. 1996. The principles of radioiodine dosimetry following a nuclear accident. In: *Radiodosimetry and preventative measures in the event of a nuclear accident*. Austria: International Atomic Energy Agency, 15-33. IAEA-TECDOC-893.

