



บรรณานุกรม

- กรมอุตสาหกรรมพื้นฐานและการเหมืองแร่. (2547). การปนเปื้อนของแคดเมียมในสิ่งแวดล้อม
อำเภอแม่สอด จังหวัดตาก. สืบคันเนื่อ 7 กันยายน 2555,
จาก Webdb.dmsc.mpol.go.th/ifc_toxic/a_tx_21_002C.asp?info_id=258
- คงเนินจ นิชานนท์. (2548). การจัดการปัญหาผลกระทบต่อสุขภาพจากสิ่งแวดล้อม:
กรณี แคดเมียมที่อำเภอแม่สอด จังหวัดตาก. วารสารการส่งเสริมสุขภาพและอนามัย
สิ่งแวดล้อม, 28, 3.
- จินตนา ศิริราศัย. (2545). โลหะหนัก แคดเมียม (Cadmium). จุลสารพิชวิทยา, 10(1), 3-5.
- ธงชัย หน่อแก้ว. (2554). ภาวะเหล็กในร่างกายต่อการสะสมแคดเมียมในรกรของ
หญิงตั้งครรภ์ที่อาศัยอยู่ในพื้นที่ปนเปื้อนแคดเมียม อำเภอแม่สอด จังหวัดตาก.
วิทยานิพนธ์ วท.ม., มหาวิทยาลัยนเรศวร, พิษณุโลก.
- ธีรศักดิ์ สำราญธากุล. (2553). โรงพยาบาลวิภาวดี. สืบคันเนื่อ 9 ตุลาคม 2556,
จาก <http://www.vibhavadi.com/fertility/topic.php?mid=18584>
- พรชุพา ขัญภัทรกุล. (2556). Oknation. สืบคันเนื่อ 9 ตุลาคม 2556, จาก
<http://www.oknation.net/blog/print.php?id=873426>
- แม่น ออมรลักษ์ และอมร เพชรส. (2534). Principles and techniques of instrumental
analysis. กรุงเทพฯ: ชวนพิมพ์.
- ไมตรี สุทธจิตต์. (2534). สารพิษรอบตัวเรา. เรียงใหม่: ใจพิมพ์ดาวคอมพิวเตอร์.
- รุจนา ชุตฤทธิ์. (ม.ป.ป.). แคดเมียม ปัญหาจากสิ่งแวดล้อมกับการเกิดมะเร็ง.
สืบคันเนื่อ 5 กันยายน 2555, จาก detail.php?section=8&category=7&id=9
- ลือวัฒน์ พัพิทยาเลิศ. (2556). ผลของแคดเมียมต่อการแสดงออกของ metallothionein,
calcium channels และ calcium transporters ในรกรมนูชย์. วิทยานิพนธ์ ปร.ด.,
มหาวิทยาลัยนเรศวร, พิษณุโลก.
- สถาบันวิจัยวิทยาศาสตร์สาธารณสุข กรมวิทยาศาสตร์การแพทย์. (2553). การตรวจวิเคราะห์
ปริมาณทองแดงในซีรั่มโดยวิธี Graphite Furnace Atomic Absorption
Spectrometry. ม.ป.ท.: ม.ป.พ.
- สุนทรี สงหย_precision (ผู้ควบรวม). (2543). แคดเมียม. กรุงเทพฯ: เอ. ที. แอนด์ เอ็นอินเตอร์เนชันแนล.
- สำนักส่งเสริมสุขภาพ กรมอนามัย กระทรวงสาธารณสุข. (2550). สมุดบันทึกสุขภาพแม่และลูก.
กรุงเทพฯ: องค์การส่งเสริมสุขภาพ.

- Alebic-Juretic, A. and Frkovic, A. (2005). Plasma copper concentrations in pathological pregnancies. *Journal of Trace Elements in Medicine and Biology*, 19, 191-194.
- ATSDR. (2012). Toxicological profile for cadmium. N.P.: n.p.
- Bernard, A. (2008). Cadmium & its adverse effects on human health. *Indain J Med Res*, 128, 557-564.
- Bernhoft, B., A. (2013). Cadmium toxicity and treatment. *The Scientific world Journal*, 2013, 1-7.
- Beton, D. C., Andrews, G. S., Davies, H. J., Howells, L. and Smith, G. F. (1966). Acute cadmium fume poisoning five case with one death from renal necrosis. *Brit J industr Med*, 23, 292-301.
- Bi, X., Feng, X., Yang, Y., Qui, G., Li, G., Li, F., et al. (2006). Environmental contamination of heavy metals from zinc smelting areas in Hezhang county, Western Guizhou, China. *Environment International*, 32, 883- 890.
- Boonsiri, P., Pooart, J., Tangrassameeprasert, R., Hongsprabhas, P., Khampitak, T. and Yongvanit, P. (2006). Serum vitamin A and zinc levels of healthy people in northeast Thailand. *Clinica Chimica Acta*, 373, 132-138.
- Brzoska, M. M. and Moniuszko-Jakoniuk, J. (2001). Interactions between cadmium and zinc in the organism. *Food and Chemical Toxicology*, 39, 967-980.
- Burch, R. E., Hahn, H. J. and Sullivan, J. F. (1975). Newer aspects of the roles of zinc, manganese and copper in human nutrition. *Clin Chem*, 21(4), 501-520.
- Cherian, M.G., Jayasurya, A. and Bay, B.H. (2003). Metallothioneins in human tumors and potential roles in carcinogenesis. *Mutat Res*, 10, 201-209.
- Collins, J. F. and Klevey, L. M. (2011). Copper. *Advances in Nutrition*, 2, 520-522.
- Cuypers, A., Plusquin, M., Remans, T., Jozefczak, M., Keunen, E., Gielen, H., et al. (2010). Cadmium stress: An oxidative challenge. *Biometals*, 23, 927-940.
- European economic community (EEC). (1986). Council Directive of 12 June 1986 on The protection of the environmental, and in particular of the soil, when sewage sludge is used in agriculture (86/278/EEC). N.P.: n.p.

- Galicia-Garcia, V., Rojas-Lopez, M., Rojas, R., Olaiz, G. and Rios, C. (1997). Cadmium levels in maternal, cord and newborn blood in Mexico city. *Toxicology Letters*, 91, 57-61.
- Gallagher, C. M., Chen, J.J. and Kovach, J.S. (2011). The relationship between body iron stores and blood and urine cadmium concentration in US never-smoking, non-pregnant women aged 20-49 years. *Environmental Research*, 111, 702-707.
- Godt, J., Scheidig, F., Grosse-Siestrup, C., Esche, V., Brandenburg, P., Reich, A., et al. (2006). The toxicity of cadmium and resulting hazards for human health. *Journal of Occupational Medicine and Toxicology*, 1(22), 1-6.
- Gropper, S., Smith, L. and Groff, L. (Eds). (2009). Advance nutrition and human Metabolism (5th ed.). United State: Wadsworth, Cengage Learning.
- Hartwig, A. (2010). Mechanisms in cadmium-induced carcinogenicity: recent insights. *Biometals*, 23, 951-960.
- Higashikawa, K., Zhang, Z., Shimbo, S., Moon, C., Watanabe, T., Nakatsuka, H., et al. (2000). Correlation between concentration in urine and in blood of cadmium and lead among women in Asia. *The Science of Total Environment*, 246, 97-107.
- IARC. (1993). Cadmium and cadmium compounds. In; IARC Monograph on the Evaluation of Carcinogenic Risks to Humans: Beryllium, Cadmium, Mercury and Exposures in the Glass Manufacturing Industry. International Agency for Research on Cancer, 58, 119-238.
- Jarup, L. (2002). Cadmium overload and toxicity. *Nephrol Dial Transplant*, 17(2), 35-39.
- Jimenez, O. A., Chikneyan, S., BACA, A. J., Wang, J. and Zhou, F. (2005). Sensitive Detection of Sulfhydryl Groups in surface-Confined Metallothioneins and Related Species via Ferrocencapped Gold Nanoparticle/ Streptavidin Conjugates. *Environ Sci Technol*, 39(5), 1209-1213.
- Joseph, P. (2009). Mechanisms of cadmium carcinogenesis. *Toxicology and Applied Pharmacology*, 238, 272-279.

- Kantola, M., Purkunen, R., Kroger, O., Tooming, A., Juravskaja, J., Pasanen, M., et al. (2000). Accumulation of cadmium, zinc and copper in maternal blood and Developmental placental tissue: Differences between Finland, Estonia and St. Peterburg. *Environmental Research section A*, 83, 54-66.
- Keen, C. L., Clegg, M. S., Hanna, L. A., Lanoue, L., Rogers, J. M., Daston, G. P., et al. (2003). The plausibility of micronutrient deficiencies being a significant contributing factor to the occurrence of pregnancy complications. *Journal of Nutrition*, 133, 1597S-1605S.
- Kippler, M., Ekstrom, E., Lonnerdal, B., Goessler, W., Akesson, A., Airfeen, S.E., et al. (2007). Influence of iron and zinc status on cadmium accumulation in Bangladeshi women. *Toxicology and Applied Pharmacology*, 222, 221-226.
- Kippler, M., Waheedul Hoque, A. M., Raqib, R., Ohrvik, H., Ekstrom, E. and Vahter, M. (2010). Accumulation of cadmium in human placenta interacts with the transport of micronutrients to the fetus. *Toxicology Letters*, 192, 162-168.
- Klaassen, C. D., Lui, J. and Choudhori, S. (1999). Metallothionein: An intracellular protein to protect against cadmium toxicity. *Annu Rev Pharmacol Toxicol*, 39, 267- 297.
- Klaassen, D. (Ed.). (2008). Casarett and Doull's toxicology the basic science of Poisons (7th ed.). United States of America: The Mc Graw-Hill Companies.
- Kocyigit, A., Armutcu, F., Gurel, A. and Ermis, B. (2004). Alterations in plasma essential trace elements selenium, manganese, zinc, copper, and iron concentrations and the possible role of these elements on oxidative status in patients with childhood asthma. *Biological Trace Element Research*, 97, 31-41.
- Linder, M. C. and Hazegh-Azam, M. (1996). Copper biochemistry and molecular biology. *Am J Clin Nutr*, 63, 797S-811S.
- Liu, J., Yuan, E., Zhang, Z., Jia, L., Yin, Z., Meng, X., et al. (2012). Age-and sex-specific reference intervals for blood copper, zinc, calcium, magnesium, iron, lead and cadmium in infants and children. *Clinical Biochemistry*, 45, 416-419.

- Louro, M. O., Cocho, A. J. and Tutor, J. C. (2001). Assessment of copper status in pregnancy by means of determining the specific oxidase activity of ceruloplasmin. *Clinica Chemica Acta*, 312, 123-127.
- Lugon-Moulin, N., Martin, F., Krauss, M. R., Raney, P. B. and Rossi, L. (2006). Cadmium concentration in tobacco (*Nicotiana tabacum* L.) from different countries and its relationship with other elements. *Chemosphere*, 63(7), 1074-1086.
- Ma, J. and Betts, N. M. (2000). Zinc and copper intakes and their major food sources for older adults in the 1994-96 continuing survey of food intakes by individuals (CSFII). *Journal of Nutrition*, 130, 2838-2843.
- Moffat, A. C., Osselton, M. D. and Widdop, B. (2004). *Clark's analysis of drugs and poisons* (3rd ed.). London: The pharmaceutical.
- Moreno, M. A., Marin, C., Vinagre, F. and Ostapczuk, P. (1999). Trace element levels in Whole blood samples from residents of the city Badajoz, Spain. *The Science of Total Environment*, 229, 209-215.
- Nordberg, G. F., Fowler, B. A., Nordberg, M. and Friberg, L. T. (Eds.). (2007). *Handbook on the toxicology of metals* (3rd ed.). United States of America: Academic.
- Osman, K., Akesson, A., Berglund, M., Bremme, K., Schutz, A., Ask, K., et al. (2000). Toxic and essential elements in placentas of Swedish women. *Clinical Biochemistry*, 33, 131-138.
- Padungtod, C., Swaddiwudhipong, W., Nishijo, M., Ruangyuttikarn, W. and Inud, T. (2007). Health risk management for cadmium contamination in thailand: are challenges overcome?. Retrieved November 2, 2012, from http://www.who.int/ifcs/documents/forums/forum5/thai_padungtod.pdf
- Parrish, C. R. (2005). Trace element monitoring and therapy for adult patients receiving long – term total parenteral nutrition. *Nutrition issues in gastroenterology*, 25, 44-58.

- Pathak, P. and Kapil, U. (2004). Role of trace elements zinc, copper and magnesium during pregnancy and its outcome. *Indian Journal of Pediatrics*, 71, 1003- 1005.
- Perkin Elmer. (1982). *Analytical methods for atomic absorption spectrometry*. U.S.A: The Perkin Elmer Corporation.
- Perveen, S., Altaf, W., Vohra, N., Bautista, M. L., Harper, R. G. and Wapnir, R. A. (2002). Effect of gestational age on cord blood plasma copper, zinc, magnesium and albumin. *Early Human Development*, 69, 15-23.
- Pizent, A., Jurasic, J. and Telisman, S. (2003). Serum calcium, zinc and copper in relation to biomarkers of lead and cadmium in men. *Journal of Trace Elements in Medicine and Biology*, 17(3), 199-205.
- Popko, J., Olszewski, S., Hukalowicz, K., Markiewicz, R., Borawska, M. H. and Szeparowicz, P. (2003). Lead, cadmium, copper and zinc concentrations in blood and hair of mothers of children with locomotor system malformations. *Polish Journal of Environmental Studies*, 12, 375-379.
- Raghunath, R., Tripathi, R. M., Sastry, V. N. and Krishnamoorthy, T. M. (2000). Heavy metals in maternal and cord blood. *The Science of the Total Environment*, 250, 135-141.
- Reyes, H., Baez, M. E., Gonzalez, M. C., Hernandez, I., Palma, J., Ribalta, J., et al. (2000). Selenium, zinc and copper plasma levels in intrahepatic cholestasis of pregnancy, in normal pregnancies and in healthy individuals, in Chile. *Journal of Hepatology*, 32, 542-549.
- Rukgaure, M. (1997). Reference values for the trace element copper, manganese, selenium, and zinc in the serum/plasma of children, adolescent and adults. *J Trace Elements Med Biol*, 11, 92-98.
- Ryu, D., Lee, S., Park, D. W., Choi, B., Klaassen, C. and Park, J. (2004). Dietary iron regulates intestinal cadmium absorption through iron transporters in rats. *Toxicology Letters*, 152, 19-25.

- Satarug, S. and Moore, M. R. (2004). Adverse health effects of chronic exposure to low-level cadmium in foodstuffs and cigarette smoke. *Environmental Health perspectives*, 112(10), 1099-1103.
- Semczuk, M. and Semczuk-Sikora A. (2001). New data on toxic metal intoxication (Cd, Pb and Hg in particular) and Mg status during pregnancy. *Med. Sci. Monit*, 7, 332-340.
- Simmons, R.W., Pongsakul, P., Saiyasitpanich, D and Klinphoklap, S. (2005). Elevated levels of cadmium and zinc in paddy soils and elevated levels of cadmium in rice grain downstream of zinc mineralized area in Thailand: Implications for public health. *Environmental Geochemistry and Health*, 27, 501-511.
- Soontorn Srituee., Nisa Sriwong., Wisut Kangwantrakul., Jindarat Trakulthong and Limthong Promdee. (2012). Prevalence of second – hand Smorking and urinary Cotinine in Pregnant women. *J Med Tech Assoc Thailand*, 40, 4340-4347.
- Sorell, T.L. and Graziano, J.H. (1990). Effect of oral cadmium exposure during pregnancy on maternal and fetal zinc metabolism in the rat. *Toxicol. Appl. Pharmacol*, 102, 537-545.
- Sorkun, H. C., Bir, F., Akbulut, M., Divrikli, U., Erken, G., Demirhan, H., et al. (2007). The Effects of air pollution and smoking on placental cadmium, zinc concentration and metallothionein expression. *TOXICOLOGY*, 238, 15-22.
- Swaddiwudhipong, W., Limpatanachote, P., Mahasakpan, P., Krinratun, S. and Padungtod, C. (2007). Cadmium-exposed population in mae sot district, tak province: 1. prevalence of high urinary cadmium levels in the adults. *J Med Assoc Thai*, 90(1), 143-147.
- Szeparowicz, P. (2003). Lead, cadmium, copper and zinc concentrations in blood and hair of mothers of children with locomoter system malformations. *Polish Journal of Environmental Studies*, 12(3), 375-379.
- Takahashi, S. (2012). Molecular functions of metallothionein and its role in hematological malignancies. *Journal of Hematology & Oncology*, 5(41), 1-8.

- Tamura, T. and Robert, L. (1996). Zinc nutriture and pregnancy outcome. *Nutrition Research*, 16(1), 138-181.
- Teeyakasem, W., Nishijo, M., Honda, R., Satarug, S., Swaddiwudhipong, W. and Ruangyuttikarn, W. (2007). Monitoring of cadmium toxicity in a Thai population with high-level exposure. *Toxicology Letters*, 169(3), 185-195.
- Thirumoorthy, N., Kumar, K. M., Sundar, A. S., Panayappan, L. and Chatterjee, M. (2007). Metallothionein: an overview. *Journal of Gastroenterology*, 13(7), 993-996.
- Uauy, R., Olivares, M. and Gonzalez, M. (1998). Essentiality of copper in humans. *Am J Clin Nutr*, 67, 952S-959S.
- Ugwuwa, E. I., Akubugwo, E. I., Ibiam, U., Obudoa, O. and Ugwu, N. C. (2010). Plasma copper and zinc among pregnant women in abakaliki, southeastern nigeria. *The Internet Journal of Nutrition and Wellness*, 10(1), 1-9.
- Vesey, D.A. (2010). Transport pathways for cadmium in the intestine and kidney proximal tubule: Focus on the interaction with essential metals. *Toxicology Letters*, 198, 13-19.
- Viksna, A. and Lindgren, E.S. (1997). Determination of lead and cadmium in whole blood of mothers and their babies. *Analytica chimica Acta*, 353, 307-311.
- Walker, J. B., Houseman, J., Seddon, L., McMullen, E., Tofflemire, K and Mills, C. (2006). Maternal and umbilical cord blood levels of mercury, lead, cadmium, and essential trace elements in Arctic Cannada. *Environmental Research*, 100, 295- 318.
- WHO. (1989). World health organization, geneva, who technical report series. In *Proceedings of The Thirty-Third Report of The Joint FAO/WHO Expert Committee on Food Additives. Evaluation of certain food additives and Contaminants* (pp.28-31). N.P.: n.p.
- WHO. (1996). *Trace element in human nutrition and health*. Geneva: World Health Organization.

- Wills, N. K., Sadagopa Ramanujam, V. M., Kalariya, N., Lewis, J. R. and Van Kuijk, F. J. G. M. (2008). Copper and zinc distribution in the human retina: relationship to cadmium accumulation, age, and gender. *Experimental Eye Research*, 87, 80-88.
- Yang, Q., Lan, C. and Shu, W. (2008). Copper and zinc in paddy field and their potential ecological impacts affected by wastewater from a lead/zinc mine, P.R.China. *Environ Monit Assess*, 147, 65-73.
- Zhang, Z., Yuan, E., Lui, J., Lou, X., Jia, L. and Li, X., et al. (2013). Gestational age-specific reference intervals for blood copper, zinc, calcium, magnesium, iron, lead, and cadmium during normal pregnancy. *Clinical Biochemistry*, 46, 777-780.
- Zhuang, P., McBride, M.B., Xia, H., Li, Ningyu. and Li, Z. (2009). Health risk from heavy metals via consumption of food crops in the vicinity of Dabaoshan mine, South China. *Science of the total environment*, 407, 1551-1561.