

- 1.3 石川県梯川流域
- 1.3 - 1 Nogawa K., Ishizaki A., Kawano S., Statistical observation of the dose-response relationships of cadmium based on epidemiological studies in the Kakehashi river basin. *Environ Res.* 1978; 15: 185-198.
- 1.3 - 2 Kido T., Honda R., Tsuritani I., Yamaya H., Ishizaki M., Yamada Y., Nogawa K., An epidemiological study on renal dysfunction of inhabitants in Cd-exposed areas in the Kakehashi River basin in Ishikawa Prefecture. *Nippon Eiseigaku Zasshi.* 1987; 42: 964-972.
- 1.3 - 3 Ishizaki M., Kido T., Honda R., Tsuritani I., Yamada Y., Nakagawa H., Nogawa K., Dose-response relationship between urinary cadmium and β_2 -microglobulin in a Japanese environmentally cadmium exposed population. *Toxicology.* 1989; 58: 121-131.
- 1.3 - 4 Hayano M., Nogawa K., Kido T., Kobayashi E., Honda R., Tsuritani I., Dose-response relationships between urinary cadmium concentration and β_2 -microglobulinuria using logistic regression analysis. *Arch Environ Health.* 1996; 51: 162-7.
- 1.3 - 5 Kido T., Shaikh Z.A., Kito H., Honda R., Nogawa K., Dose-response relationship between urinary cadmium and metallothionein in a Japanese population environmentally exposed to cadmium. *Toxicology.* 1991; 65: 325-332.
- 1.3 - 6 Nogawa K., Honda R., Kido T., Tsuritani I., Yamada Y., Ishizaki M., Yamaya H., A dose-response analysis of cadmium in the general environment with special reference to total cadmium intake limit. *Environ Res.* 1989; 48, 7-16.
- 1.3 - 7 Nakashima K., Kobayashi E., Nogawa K., Kido T., Honda R., Concentration of cadmium in rice and urinary indicators of renal dysfunction. *Occup Environ Med.* 1997; 54: 750-755.
- 1.3 - 8 Kido T., Honda R., Tsuritani I., Ishizaki M., Yamada Y., Nogawa K., Progress of renal dysfunction in inhabitants environmentally exposed to cadmium. *Arch Environ Health.* 1988; 43: 213-217.
- 1.4 秋田県小坂町
- 1.4 - 1 齋藤 寛, 塩路隆治, 古川洋太郎, 有川 卓, 齋藤喬雄, 永井謙一, 道又勇一, 佐々木康彦, 古山 隆, 吉永 馨, カドミウム環境汚染にもとづく慢性カドミウム中毒の研究 秋田県小坂町細越地域住民に多発したカドミウムによる腎機能障害 (多発性近位尿管機能異常症) について. 日内会誌 64, 37-49, 1975.
- 1.4 - 2 Saito H., Shioji R., Hুরুkawa Y., Nagai K., Arikawa T., Saito T., Sasaki Y., Furuyama T., Yoshinaga K., Cadmium-induced proximal tubular dysfunction in a cadmium-polluted area. *Contr Nephrol* 6, 1-12, 1977a.
- 1.4 - 3 齋藤 寛, 永井謙一, 有川 卓, 齋藤喬雄, 塩路隆治, 古川洋太郎, 古山隆, 吉永 馨, カドミウム環境汚染地域住民の尿 β_2 -microglobulin濃度-カドミウム負荷量とのDose Effect Relationship について. 医学のあゆみ, 100, 350-352, 1977b.
- 1.4 - 4 部 幸三, 齋藤 寛, 中野篤浩, 海上 寛, 高田健右, 佐藤徳太郎, 古山隆, 吉永 馨, 有川 卓, 永井謙一, カドミウム環境汚染地域住民の尿中 β_2 -microglobulin, 一世代別, 性別の検討, ならびに近位尿管細管検査成績との比較. 日腎誌 23, 45-62, 1981.
- 1.4 - 5 Kojima S., Haga Y., Kurihara T., Yamawaki T., Kjellstrom T., A comparison between fecal cadmium and urinary β_2 -Microglobulin, total protein, and cadmium among Japanese farmers. *Environ Res* 14, 436-451, 1977.
- 1.4 - 6 小野推司, 齋藤 寛, 秋田県小坂町住民の死亡原因に関する疫学的研究. 日腎誌 40, 799-811, 1985.
- 1.4 - 7 Iwata K., Saito H., Moriyama M., Nakano A., Follow-up study of renal tubular dysfunction and mortality in residents of an area polluted with cadmium. *Br J Ind Med* 49: 736-737, 1992.
- 1.5 長崎県対馬
- 1.5 - 1 中野篤浩, 齋藤 寛, 脇阪一郎, カドミウム土壌汚染地域住民におけるカドミウムと β_2 -マイクログロブリンの尿中排泄に関する研究. 国立公害研究所研究報告, 84, 13-30, 1985.
- 1.5 - 2 小林悦子, 杉平直子, 中野篤浩, 遠山千春, 三種裕子, 齋藤 寛, 脇阪一郎, 長崎県対馬カドミウム汚染地域住民における血液検査成績. 国立公害研究所研究報告, 84, 37-45, 1985.
- 1.5 - 3 Tohyama C., Kobayashi E., Saito H., Sugihara N., Nakano A., Mitane Y., Urinary α_1 -microglobulin as an indicator protein of renal tubular dysfunction caused by environmental cadmium exposure. *J Appl Toxicol* 6, 171-178, 1986.
- 1.5 - 4 Tohyama C., Mitane Y., Kobayashi E., Sugihara N., Nakano A., Saito H., The relationships of urinary metallothionein with other indicators of renal dysfunction in people living in a cadmium-polluted area in Japan. *J Appl Toxicol* 8, 15-21, 1988.
- 1.5 - 5 Iwata K., Saito H., Moriyama M., Nakano A., Renal tubular function after reduction of environmental cadmium exposure: A ten-year follow-up. *Arch Environ Health* 48, 157-163, 1993.
- 1.5 - 6 劉曉潔, 長崎県対馬カドミウム土壌汚染地域住民の頭髮, 尿および血液カドミウム濃度-土壌還元前後18年での比較-. 日衛誌, 54, 544-551, 1999.
- 1.5 - 7 原田孝司, 平井義修, 原耕平, 嘉村末男, カドミウム環境汚染地域における経過観察者の近位尿管細管障害の推移. 環境保健レポート 1988; 54, 127-133.
- 1.5 - 8 Iwata K., Saito H., Moriyama M., Nakano A., Association between renal tubular dysfunction and mortality among residents in a cadmium-polluted area, Nagasaki, Japan. *Tohoku J Exp Med* 164, 93-102, 1991a.
- 1.5 - 9 Iwata K., Saito H., Nakano A., Association between cadmium-induced renal dysfunction and mortality: Further evidence. *Tohoku J Exp Med* 164, 319-330, 1991b.
- 1.5 - 10 Arisawa K., Nakano A., Saito H., Liu X-J., Yokoo M., Soda M., Koba T., Takahashi T., Kinoshita K., Mortality and cancer incidence among a population previously exposed to environmental cadmium. *Int Arch Occup Environ Health* 74, 255-262, 2001.
- 1.6 全国規模の研究
- 1.6 - 1 Suwazono Y., Kobayashi E., Okubo Y., Nogawa K., Kido T., Nakagawa H., Renal effects of cadmium exposure in cadmium nonpolluted areas in Japan. *Environ Res.* 2000; 84: 44-55.

- 1.6 - 2 Ezaki T., Tsukahara T., Moriguchi J., Furuki K., Fukui Y., Ukai H., Okamoto S., Sakurai H., Honda S., Ikeda M., No clear-cut evidence for cadmium-induced renal tubular dysfunction among over 10,000 women in the Japanese general population: a nationwide large-scale survey. *M.Int. Arch. Occup. Environ. Health.* 2003; 76: 186-196.
- 1.6 - 3 櫻井治彦, 池田正之, 香山不二雄, 江崎高史, 塚原輝臣, 森口次郎, 大前和幸, 守山知章, 田口陽嗣, 渡邊久芳, 篠原明美, 安井明美, 食品中に残留するカドミウムの健康影響評価について (平成13~15年度総合研究報告書), 平成16年.
- 1.6 - 4 Horiguchi H., Oguma E., Sasaki S., Miyamoto K., Ikeda Y., Machida M., Kayama F., Dietary exposure to cadmium at close to the current provisional tolerable weekly intake dose not affect renal function among female Japanese farmers. *Environ Res.* 2004; 95: 20-31.
- 1.6 - 5 Ikeda M., Ezaki T., Tsukahara T., Moriguchi J., Furuki K., Fukui Y., Ukai H., Okamoto S., Sakurai H., Threshold levels of urinary cadmium in relation to increases in urinary β_2 -microglobulin among general Japanese populations. *Toxicol. Lett.* 2003;137:135-141.
- 1.7 他 の 日 本 の 研 究
- 1.7 - 1 Kawada T., Shimmyo R.R., Suzuki S., Urinary cadmium and N-acetyl- β -D-glucosaminidase excretion of inhabitants living in a cadmium-polluted area. *Int Arch Occup Environ Health* 63, 541-546, 1992.
- 1.7 - 2 Nakadaira H., Nishi S., Effects of low-dose cadmium exposure on biological examinations. *Sci Total Environ* 308, 49-62, 2003.
- 1.8 ベルギー、Cadmiel 研究
- 1.8 - 1 Bernard A., Roels H., Buchet J.P., Cardenas A., Lauwerys R., Cadmium and health: the Belgian experience. *IARC Sci Publ.* 1992; 15-33.
- 1.8 - 2 Lauwerys R., Amery A., Bernard A., Bruaux P., Buchet J.P., Claeys F., De Plaen P., Ducoffre G., Fagard R., Lijnen P., Nick L., Roels H., Rondia D., Saint-Remy A., Sartor F., Staessen J., Health effects of environmental exposure to cadmium: objectives, design and organization of the Cadmiel Study: a cross-sectional morbidity study carried out in Belgium from 1985 to 1989. *Environ Health Perspect.* 1990; 87: 283-289.
- 1.8 - 3 Lauwerys R., Bernard A., Buchet J.P., Roels H., Bruaux P., Claeys F., Ducoffre G., De Plaen P., Staessen J., Amery A., Fagard R., Lijnen P., Thijs L., Rondia D., Sartor F., Saint-Remy A., Nick L., Does environmental exposure to cadmium represent a health risk? Conclusion from the Cadmiel study. *Acta Clin Belg.* 1991; 46: 219-225.
- 1.8 - 4 Staessen J.A., Lauwerys R., Ide G., Roles H.A., Vyncek G., Amery A., Renal function and historical environmental cadmium pollution from zinc smelters. *The Lancet* 1994; 343, 1523-1527.
- 1.8 - 5 Hotz P., Buchet J.P., Bernard A., Lison D., Lauwerys R., Renal effects of low-level environmental cadmium exposure: 5-year follow-up of a subcohort from the Cadmiel study. *The Lancet: Oct 30, 1999: 354,*
- 1508-1513.
- 1.9 スウェーデン、OSCAR 研究
- 1.9 - 1 Järup L., Hellström L., Alfvén T., Carlsson M.D., Grubb A., Persson B., Petterson C., Spång G., Schütz A., Elinder C.G., Low level exposure to cadmium and early kidney damage: the OSCAR study. *Occup Environ Med* 2000;57:668-672.
- 1.10 英国 Shiphham 地域
- 1.10 - 1 Morgan H., Simms D.L., Discussion and Conclusion. *Sci Total Environ* 1988, 75, 135-143.
- 1.10 - 2 Simms D.L., Morgan H., Introduction, *Sci Total Environ* 1988, 75, 1-10.
- 1.11 旧ソ連
- 1.11 - 1 Bustueva K.A., Revich B.A., Bezpalko L.E., Cadmium in the environment of three Russian cities and in human hair and urine. *Arch Environ Health.* 1994; 49: 284-288.
- 1.11 - 2 Cherniaeva T.K., Matveeva N.A., Kuzmichev Iu.G., Gracheva M.P., Heavy metal content of the hair of children in industrial cities. *Gig Sanit.* 1997; 26-28. (Russian)
- 1.11 - 3 Iarushkin V.Iu. Heavy metals in the mother-newborn infant biological system in the technology-related biogeochemical environment. *Gig Sanit.* 1992; 13-15. (Russian)
- 1.11 - 4 Odland J.O., Nieboer E., Romanova N., Thomassen Y., Lund E., Blood lead and cadmium and birth weight among sub-arctic and arctic populations of Norway and Russia. *Acta Obstet Gynecol Scand.* 1999;78: 852-860.
- 1.11 - 5 Olikhova S.V., Tabachnikov M.M., Gevorgian A.M., Zhochkun E., Kireev G.V., Levels of cadmium, lead and copper in inhabitants of Tashkent and Tashkent region. *Gig Sanit.* 2000; 11:12. (Russian)
- 1.12 中国
- 1.12 - 1 Cai SW., Yue L., Hu ZN, Zhong XZ., Ye ZL., Xu HD., Liu YR., Ji RD., Zhang WH., Zhang FY., Cadmium exposure and health effects among residents in an irrigation area with ore dressing wastewater. *Sci Total Environ.* 1990; 90: 67-73.
- 1.12 - 2 Cai S., Yue L., Shang Q., Nordberg G., Cadmium exposure among residents in an area contaminated by irrigation water in China. *Bull World Health Organ.* 1995; 73: 359-367.
- 1.12 - 3 Nordberg G.F., Jin T., Kong Q., Ye T., Cai S., Wang Z., Zhuang F., Wu X., Biological monitoring of cadmium exposure and renal effects in a population group residing in a polluted area in China. *Sci Total Environ.* 1997; 20: 199: 111-114.
- 1.12 - 4 Jin T., Nordberg G., Wu X., Ye T., Kong Q., Wang Z., Zhuang F., Cai S., Urinary N-acetyl- β -D-glucosaminidase isoenzymes as biomarker of renal dysfunction caused by cadmium in a general population. *Environ Res.* 1999; 81: 167-173.
- 1.12 - 5 Han C., An investigation of the effects of cadmium exposure on human health. *Biomed Environ Sci.* 1988; 1: 323-331.
- 1.12 - 6 Qu JB., Xin XF., Li SX., Ikeda M., Blood lead and cadmium in a

general population in Jinan City, China. *Int Arch Occup Environ Health*. 1993;65(1 Suppl):S201-S204.

1.13 米国

- 2 - 1 1.13 - 1 Diamond G.L., Thayer W.C., Choudhury H.J., Pharmacokinetics/pharmacodynamics (PK/PD) modeling of risks of kidney toxicity from exposure to cadmium: estimates of dietary risks in the U.S. population. *Toxicol Environ Health A*. 2003; 66: 2141-2164.
- 2 - 2 職業曝露による健康影響
2 - 1 Friberg L., Health hazards in the manufacture of alkaline accumulators which special reference to chronic cadmium poisoning. Doctoral thesis. *Acta Med Scand* 1950;138(6240):1-124.
- 2 - 2 Adams R.G., Clinical and biochemical observation in men with cadmium nephropathy. A twenty-year study. *Arch Hig Rada Toksikol*. 1979;30:219-31.
- 2 - 3 Baader E.W., Chronic cadmium poisoning. *Disch. Med Woehenschr*. 1951;76:484-7.
- 2 - 4 Bonnell J.A., Emphysema and proteinuria in men casting copper-cadmium alloys. *Br J Ind Med*. 1955;12:181-197.
- 2 - 5 Bonnell J.A., Kazantzis G., King E., A follow-up study of men exposed to cadmium oxide fume. *Br J Ind Med*. 1959;16:135-146.
- 2 - 6 De Silva PE, Donnan MB. Chronic cadmium poisoning in a pigment manufacturing plant. *Br J Ind Med*. 1981; 38: 76-86.
- 2 - 7 Lauwerys R.R., Buchet J.P., Roels H.A., Brouwers J., Stanescu D., Epidemiological survey of workers exposed to cadmium. *Arch Environ Health*. 1974; 28: 145-148.
- 2 - 8 Suzuki Y., Suzuki T., Ashizawa M., Proteinuria due to inhalation of cadmium stearate dust. *Ind Health*. 1965;3:73-85.
- 2 - 9 Tuchiya K., Proteinuria of workers exposed to cadmium fume. The relationship to concentration in the working environment. *Arch Environ Health*. 1967;14:875-880.
- 2 - 10 Hansén L., Kjellström T., Vesterberg O., Evaluation of different urinary proteins excreted after occupational Cd exposure. *Int. Arch. Occup. Environ Health*. 1977; 40: 273-282.
- 2 - 11 Bernard A., Buchet J.P., Roels H., Masson P., Lauwerys R., Renal excretion of proteins and enzymes in workers exposed to cadmium. *Eur J Clin Invest*. 1979; 9:11-22.
- 2 - 12 Adams R.G., Harrison J.F., Scott P., The development of cadmium-induced proteinuria, impaired renal function, and osteomalacia in alkaline battery workers. *Q J Med*. 1969; 38 :425-443.
- 2 - 13 Kazantzis G., Flynn F.V., Spowage J.S., Trott D.G., Renal tubular malfunction and pulmonary emphysema in cadmium pigment workers. *Q J Med*. 1963; 32: 165-192.
- 2 - 14 Elinder C.G., Edling C., Lindberg E., Kagedal B., Vesterberg O., β_2 -Microglobulinuria among workers previously exposed to cadmium: follow-up and dose-response analyses. *Am J Ind Med*. 1985; 8: 553-564.
- 2 - 15 Kawada T., Shimmyo R.R., Suzuki S., Changes in urinary cadmium excretion among pigment workers with improvement of the work environment. *Ind Health*. 1993;31: 165-170.

- 2 - 16 McDiarmid M.A., Freeman C.S., Grossman E.A., Martonik J., Follow-up of biologic monitoring results in cadmium workers removed from exposure. *Am J Ind Med*. 1997 Sep;32(3):261-267.
- 2 - 17 Scott R., Paterson P.J., Mills E.A., McKirdy A, Fell G.S., Ottoway J.M., Husain F.E., Fitzgerald-Finch O.P., Yates A.J., Lamont A., Roxburgh S., Clinical and biochemical abnormalities in copper-smiths exposed to cadmium. *Lancet*. 1976 Aug 21;2(7982):396-398.
- 2 - 18 Sorahan T., Esmen N.A., Lung cancer mortality in UK nickel-cadmium battery workers, 1947 - 2000. *Occup Environ Med*. 2004; 61: 108-116.

3. その他の曝露による健康影響

- 3 - 1 Mannino D.M., Holguin F., Greves H.M., Savage-Brown A., Stock A.L., Jones R.L., Urinary cadmium levels predict lower lung function in current and former smokers: data from the Third National Health and Nutrition Examination Survey. *Thorax*. 2004; 59: 194-198.