

第V章 引用文献

- 1) Tokunaga K, Ishikawa K, Matsuzawa Y, et al. Serum lipoprotein profile in Japanese obese children. *Int J Obesity* 6: 399-404, 1982
- 2) Legido A, Sarria A, Bueno M, et al. Relationship of body fat distribution to metabolic complications in obese prepubertal boys: Gender related differences. *Acta Pediatr Scand* 78: 440-446, 1989
- 3) 西尾利一. 平均寿命の将来. 小児成人病ハンドブック (大国真彦、村田光範編著) . 201-208, 中外医薬社, 東京. 1991
- 4) Must A, Jacques F, Dallal GE, et al. Long-term morbidity and mortality of overweight adolescents; A follow-up of the Harvard Growth Study of 1922 to 1935. *N Engl J Med* 327: 1350-1355, 1992
- 5) Asayama K, Hayashibe H, Dobashi K, et al. Relationships between biochemical abnormalities and anthropometric indices of overweight, adiposity and body fat distribution in Japanese elementary school children. *Int J Obesity* 19: 253-259, 1995
- 6) McMurray RG, Harrell JS, Levine AA, et al. Childhood obesity elevates blood pressure and total cholesterol independent of physical activity. *Int J Obesity* 19: 881-886, 1995
- 7) Freedman RA, Srinivasan SR, Valdez RA, et al. Secular increases in relative weight and adiposity among children over two decades: The Bogalusa Heart Study. *Pediatrics* 99: 420-426, 1997
- 8) Vague J. The degree of masculine differentiation of obesity, a factor determining predisposition to diabetes, atherosclerosis, gout and uric calculus disease. *Am J Clin Nutr* 4: 20-24, 1956
- 9) Committee on Nutrition American Academy of Pediatrics. obesity. *Pediatric Nutrition Handbook* second edition. (Forbes GB, Woodruff CW.) 247-256, American Academy of Pediatrics, Illinois. 1985

- 10) 長嶺晋吉. 皮下脂肪厚からみた肥満の判定. 日医誌 68: 919-924, 1972
- 11) 松田文子、葛谷 健. 糖尿病の発症因子としての肥満についての検討—既往最大肥満度と病型、発症年齢、家族歴との関係. 糖尿病 27: 917-921, 1984
- 12) Nakajima T, Fujioka S, Matsuzawa Y, et al. Noninvasive study of left ventricular performance in obese patients: influence of obesity. *Circulation* 71: 481-485, 1985
- 13) Fujioka S, Matsuzawa Y, Tokunaga K, et al. Contribution of intra-abdominal fat accumulation to the impairment of glucose and lipid metabolism in human obesity. *Metabolism* 36: 54-59, 1987
- 14) Fujioka S, Matsuzawa Y, Tokunaga K, et al: Improvement of glucose and lipid metabolism associated with selective reduction of intra-abdominal visceral fat in premenopausal women with visceral fat obesity. *Int J Obesity* 15: 853-859, 1991
- 15) Matsuzawa Y, Fujioka S, Tokunaga K, et al. Classification of obesity with respect to morbidity. *Proc Soc Exp Biol Med.*200: 197-201, 1992
- 16) 衣笠昭彦. 小児の肥満症. 肥満症—診断・治療・指導の手引き— (日本肥満学会肥満症診療のてびき編集委員会) : 117-126, 医歯薬出版株式会社, 東京. 1993
- 17) 文部省大臣官房調査統計企画課. 平成10年度学校保健統計調査速報. 1998. *健康教室* 24: 1~13, 1999
- 18) Kinugasa A, Tsunamoto K, Furukawa N, et al: Fatty liver and its fibrous change found in simple obesity in children.: *J Ped Gastroenterol Nut* 3 (3) : 408-414, 1984
- 19) 山崎公恵、数間雅子、村田光範、他. 小児における肥満のリスクについて. *小児科*28: 619-623, 1987

- 20) 柳 久子、島倉八恵、土屋 滋、他. 学校検診から成人病検診へーつくば方式による遺伝性高脂血症早期発見の試みー. 日本公衛誌37: 585-592, 1990
- 21) Kitagawa T, Owada M. Epidemiology of type 1 (insulin-dependent) and type 2 (non-insulin dependent) diabetes mellitus in Japanese children. *Diabetes Res Clin Pract* 24: Suppl7-13, 1994
- 22) 柳 久子、島倉八恵、平野千秋、他. 学校検診から成人病検診へ (第2報) -茨城県における家族ぐるみの成人病予防対策-. 日本公衛誌40: 1120-1128, 1993
- 23) Abraham S, Nordisiek M. Relationship of excess weight in children and adults. *Public Health Rep* 75: 263-273, 1960
- 24) Griffiths M, Payne PR. Energy expenditure in small children of obese and non-obese parents. *Nature* 260: 698-700, 1976
- 25) Bouchard C. Genetic factors in the regulation of adipose tissue distribution. *Acta Med Scand, Suppl.* 723: 135-141, 1986
- 26) Perusse L, Despres JP, Lemieux S, et al. Familial aggregation of abdominal visceral fat level: Results from the Quebec Family Study. *Metabolism* 45: 378-382, 1996
- 27) Whitaker RC, Wright JA, Pepe MS, et al. Predicting obesity in young adulthood from childhood and parental obesity. *N Engl J Med* 337: 869-873, 1997
- 28) Stunkard AJ. Genes, environment and human obesity. *Progress in obesity research* (eds. Ohmura Y, et al.) 669-674, Stockton Press, New York. 1990
- 29) Bouchard C, Perusse L. Genetics of obesity. *Ann Rev Nutr* 13: 337-354, 1993
- 30) 高橋雅彦、松沢佑次. 肥満の遺伝子. *遺伝* 50: 50-55, 1996
- 31) Zhang Y, Proenca R, Maffei M, et al. Positional cloning of the

- mouse obese gene and its human homologue. *Nature* 372, 425–431, 1994
- 32) Lee GH, Proenca R, Montez JM, et al. Abnormal splicing of the leptin receptor in diabetic mice. *Nature* 379: 632–635, 1996
- 33) Thompson DB, Ravussin E, Bennette PH, et al. Structure and sequence variation at the human leptin receptor gene in lean and obese Pima Indians. *Human Molecular Genetics* 6: 675–679, 1997
- 34) Walston J, Silver K, Bogardus C, et al. Time of onset of non-insulin-dependent diabetes mellitus and genetic variation in the β_3 -adrenergic-receptor gene. *N Engl J Med* 333: 343–347, 1995
- 35) Widén E, Lehto M, Kanninen T, et al. Association of polymorphism in the β_3 -adrenergic-receptor gene with features of the insulin resistance syndrome in Finns. *N Engl J Med* 333: 348–351, 1995
- 36) Clément K, Vaisse C, St John Manning B, et al. Genetic variation in the β_3 -adrenergic receptor and an increased capacity to gain weight in patients with morbid obesity. *N Engl J Med* 333: 352–354, 1995
- 37) Gagnon J, Mauriège P, Roy S, et al. The Trp64Arg mutation of the β_3 adrenergic receptor gene has no effect on obesity phenotypes in the Quebec family study and Swedish obese subjects cohorts. *J Clin Invest* 98: 2086–2093, 1996
- 38) Silver K, Walston J, Wang Y, et al. Molecular scanning for mutations in the β_3 -adrenergic receptor gene in Nauruans with obesity and noninsulin-dependent diabetes mellitus. *J Clin Endocrinol Metab* 81: 4155–4158, 1996
- 39) Kadowaki H, Yasuda K, Iwamoto K, et al. A mutation in the β_3 -adrenergic receptor gene is associated with obesity and hyperinsulinemia in Japanese subjects. *Biochem Biophys Res Comm* 215: 555–560, 1995

- 40) Kurabayashi T, Carey DGP, Morrison NA. The β_3 -adrenergic receptor gene Trp64Arg mutation is overrepresented in obese women: Effects on weight, BMI, abdominal fat, Blood pressure, and reproductive history in an elderly Australian population. *Diabetes* 45:1358-1363, 1996
- 41) Yoshida T, Sakane N, Umekawa T, et al. Mutation of β_3 -adrenergic -receptor gene and response to treatment of obesity. *Lancet* 346: 1433-1434, 1995
- 42) 井上修二. 肥満の生物学: 特集にあたって. *遺伝* 50: 47-48, 1996
- 43) Fujisawa T, Ikegami H, Takekawa K, et al. Association of Trp64Arg mutation of the β_3 -adrenergic-receptor with NIDDM and body weight gain. *Diabetologica* 39: 349-352, 1996
- 44) 日本こども資料年鑑 第3巻 (社会福祉法人恩賜財団母子愛育会日本総合愛育研究所編). IX 子どもの生活・文化: 1. 子どもの生活時間. 431-437, KTC中央出版, 東京. 1992
- 45) 日本こども資料年鑑 第3巻 (社会福祉法人恩賜財団母子愛育会日本総合愛育研究所編). V 子どもの栄養・食生活: 225-250, KTC中央出版, 東京. 1992
- 46) 齊藤麗子. 思春期の喫煙・飲酒・ドラッグ. *小児内科*29: 593-598, 1997
- 47) 中込弥男. 小児疾患の遺伝的背景. *小児内科*28増刊号: 小児疾患診療のための病態生理: 14-19, 1996
- 48) 衣笠昭彦. 乳幼児肥満. *小児成人病ハンドブック* (大関真彦、村田光範編著). 25-30, 中外医薬社, 東京. 1991
- 49) Stark D, Atkins E, Wolff D, et al. Longitudinal study of obesity in the National Survey of Health and Development. *BMJ* 283: 12-17, 1981
- 50) Abraham S, Collins C, Nordsieck M, et al. Relationship of child weight status to morbidity to adults. *Public Health Rep* 86: 273-284, 1970

- 51) Shapiro LR, Crawford PB, Clark MJ, et al. Obesity prognosis: A longitudinal study of children from the age of 6 months to 9 years. *Am J Public Health* 74: 968-972, 1984
- 52) 衣笠昭彦、衣笠紀玖子. 京都府T保健所における「幼児期からの成人病対策」の「実践と問題点. 厚生省心身障害研究「小児期からの成人病予防に関する研究」平成4年研究報告書. 112-117, 1993
- 53) 衣笠昭彦、山本 徹、寺田直人、他. 幼児期の体型と学童期の体型の相関について－3歳児の肥満判定基準設定の試み－. *小児保健研究*45 : 547-551, 1986
- 54) 衣笠紀玖子、衣笠昭彦、山本 徹、他. 就学前児童の体型変化と学童肥満の関係. *小児保健研究*51 : 377-382, 1992
- 55) 柳 久子、田中真理、平野千秋、他. 小児成人病予防健診と事後指導は動脈硬化の危険因子を減らせるか：10歳時における介入に関する3年後の追跡調査. *日本公衛誌*44: 174-183, 1997
- 56) 平野千秋、柳 久子、遠藤数江、他. 小学校1～4年生に対する地域ぐるみの肥満予防対策. *小児保健研究* 58: 18-22, 1999
- 57) 徳永勝人、松沢佑次. 肥満症の分類と鑑別診断. 肥満症の鑑別診断と検査のすすめ方. 肥満症－診断・治療・指導の手引き－（日本肥満学会肥満症診療の手引き編集委員会編）. 31-37, 医歯薬出版株式会社, 東京. 1993
- 58) 深川光司. 肥満症の合併症とその鑑別診断. 肥満症治療マニュアル（坂田利家編集）. 185-191, 医歯薬出版株式会社, 東京. 1996
- 59) Björntorp P. The associations between obesity, adipose tissue distribution and disease. *Acta Med Scand* , Suppl 723: 121-134, 1986
- 60) 松沢佑次、小谷一晃、徳永勝人. 有病率が最も低くなる理想体重. *肥満研究*4: 65-69, 1998
- 61) Tokunaga K, Matsuzawa Y, Kotani Y, et al. Ideal body weight estimated from the body mass index with the lowest morbidity. *Int J*

Obesity 15: 1-5, 1991

- 62) 山川正信、上島弘嗣、早川岳人. 肥満の総死亡、循環器疾患死亡に与える影響-NIPPON DATAより-. 肥満研究4: 70-74, 1998
- 63) 白水知仁. 生命保険からみた肥満の入院発生率、死亡率. 肥満研究4: 94-103, 1998
- 64) Mossberg HO. 40-year follow-up of overweight children. Lancet 26: 491-493, 1989
- 65) 梅崎絹恵、楠 智一、衣笠昭彦、他. 外来指導を受け、成人年齢に達した肥満児の予後に関する調査成績-第1報 肥満度の経過と成人病保有状況について-. 小児科臨床47: 2020-2024, 1994
- 66) Williams CL, Pediatric risk factors for major chronic disease. Ped Clin North Am 31: 463-476, 1984
- 67) Shear CL, Freedman DS, Burke L, et al. Body fat patterning and blood pressure in children and young adults; The Bogalusa Heart Study. Hypertension 9: 236-244, 1987
- 68) Yamakawa-Kobayashi K, Yanagi H, Fukayama H, et al. Frequent occurrence of hypoalphalipoproteinemia due to mutant apolipoprotein A-I gene in the population: a population-based survey. Hum Mol Genet 8: 331-336, 1999
- 69) Yamana K, Yanagi H, Hirano C, et al. Genetic polymorphisms and mutations of the lipoprotein lipase gene in Japanese schoolchildren with hypoalphalipoproteinemia. J Atheroscler Throb 4: 97-101, 1998
- 70) Moran JR, Ghishan FK, Halter SA, et al: Steatohepatitis in obese children: A cause of chronic liver dysfunction. Am J Gastroenterol 78(6)374-377, 1983
- 71) 柳 久子、平野千秋、島倉八恵、他. 肥満小児における脂質代謝異常および肝機能障害の頻度と臨床的特徴. 日本公衛誌40: 1012-1017, 1993

- 72) 大和田 操、似鳥嘉一、北川照男. わが国における小児期発症NIDDMの実態. 小児の糖尿病—実態と管理—. 小児内科28 : 823-828, 1996
- 73) Colditz GA. Economic costs of obesity. Am J Clin Nutr 55: 503S-507S, 1992
- 74) Troiano RP, Fleagal KM, Kuczmarski RJ, et al. Overweight prevalence and trends for children and adolescents: The National Health and Nutrition Examination Surveys, 1963-1991. Arch Pediatr Adolesc Med 149: 1085-1091, 1995
- 75) International association for the study of obesity news letter. June:7, 1998
- 76) 厚生省保健医療局地域保健健康増進栄養課生活習慣病対策室監修. 平成10年版国民栄養の現状（平成8年度国民栄養調査成績）：47-49, 第一出版, 東京. 1998
- 77) 学校保健 第2章 学校保健行政. 国民衛生の動向43: 358-373. 財団法人厚生統計協会, 東京. 1996
- 78) Epstein LH, Wing RR, Valoski A. Childhood obesity. Ped Clin North Am 32: 363-379, 1985
- 79) Rosenbaum M, Leibel RL. Pathophysiology of childhood obesity. Adv Pediatr 35: 73-178, 1988
- 80) 村田光範、山崎公恵. 肥満とはどんな状態をいうのか. こどもの肥満. 3-4, 日本小児医事出版社, 東京. 1994
- 81) 原 光彦、岩田富士彦、岡田知雄、他. 生体インピーダンス法を用いた小児体脂肪率の基準値に関する検討. 日本小児科学会誌99 : 721-722, 1995
- 82) Brozek J, Grandner F, Anderson JT, et al. Densitometric analysis of body composition: Revision of some quantitative assumptions. Ann NY Acad Sci 110: 113-140, 1963
- 83) Lukaski HC. Methods for assessment of human body composition;

- traditional and new. *Am J Nutr* 46: 537-556, 1987
- 84) 岡田知雄、岩田富士彦、原 光彦. 生体インピーダンス法による体脂肪率の測定 (問題点も含めて). *小児科学年鑑. 小児科の進歩*14: 149-152, 1994
- 85) Conway JM. A new approach for the estimation of body composition: infrared interactance. *Am J Clin Nutr* 40: 1123-1130, 1984
- 86) 平野千秋、柳 久子、島倉八恵、他. 近赤外分光法を用いた小児の体脂肪測定—学齢期の小児における検討—. *小児保健研究*55: 730-735, 1996
- 87) 村田光範、山崎公恵. 体格指数 (カウプ指数とローレル指数) について. *こどもの肥満. 7-10*, 日本小児医事出版社, 東京, 1994
- 88) 小西和孝、徳田正邦、小国龍也. 単純性肥満症. *小児内科*28増刊号: 小児疾患診療のための病態生理: 485-487, 1996
- 89) 村田光範、山崎公恵、伊谷昭幸、他. 5歳から17歳までの年齢別身長別標準体重について. *小児保健研究*39: 93-96, 1980
- 90) Tsuzaki S. The physical growth of Japanese children from birth to 18 years of age. *Helv Pediatr Acta* 42: 111-115, 1987
- 91) 池田義雄. 肥満の判断. 肥満症の診断. 肥満症—診断・治療・指導の手引き— (日本肥満学会肥満症診療のてびき編集委員会): 14-26, 医師薬出版社, 東京, 1993
- 92) JASSOニュース. *肥満研究*4: 63-64, 1998
- 93) Kissbah AH, Vyddingum N, Murray R, et al. Relation of fat distribution to metabolic complications of obesity. *J Clin Endocrinol Metabol* 54: 254-260, 1982
- 94) Reaven GM. Role of insulin resistance in human disease. *Diabetes* 37: 1595-1600, 1988
- 95) Kaplan NM. The deadly quartet. Upper-body obesity, glucose intolerance, hypertriglyceridemia, and hypertension. *Arch Intern Med*

149: 1514-1520, 1989

- 96) Wardle J, Wrightson K, Gibson L. Body fat distribution in South Asian women and children. *Int J Obesity* 20: 267-271, 1996
- 97) Rexrode KM, Carey VJ, Hennekens CH, et al. Abdominal adiposity and coronary heart disease in women. *JAMA* 280: 1843-1848, 1998
- 98) Galanis DJ, McGarvey ST, Bausserman L, et al. Relations of body fat and fat distribution to the serum lipid, apolipoprotein and insulin concentrations of Samoan men and women. *Int J Obesity* 19: 731-738, 1995
- 99) Sjöström L. A computer-tomography based multicompartiment body composition technique and anthropometric predictions of lean body mass, total and subcutaneous adipose tissue. *Int J Obesity* 15: 19-30, 1991
- 100) Armellini F, Zamboni M, Rigo L, et al. Sonography detection of small intra-abdominal fat variations. *Int J Obesity* 15: 847-852, 1991
- 101) 富沢昌弘、蔵本裕一、富沢青子、他. 超音波検査による内臓脂肪の測定法—内臓脂肪指数 (UVI) とその制度について—. *Jap J Med Ultrasonics* 20: 589-595, 1993
- 102) Nicola A, Dennis B, Ronald M, et al. Estimation of adipose tissue mass by magnetic resonance imaging: validation against dissection in human cadavers. *J Lipid Res* 35: 1490-1496, 1994
- 103) 二渡玉江、林 睦郎、岩瀬知子、他. 超音波測定法による腹膜前脂肪厚および腹壁脂肪厚測定 of 臨床的意義. *肥満研究*4: 131-135, 1998
- 104) 多田 明、鹿江幹雄、森永健市、他. CTによるびまん性肝疾患の評価—その1. 脂肪肝の診断と定量的評価—. *臨放*24: 1319-1324, 1979
- 105) Bydder GM, Kreel L, Chapman RWG, et al. Accuracy of computed tomography in diagnosis of fatty liver. *BMJ* 281: 1042, 1980

- 106) 山脇忠清、弥富 章、広藤秀雄、他. CTによる肝脂肪浸潤の検討. 肝臓 22: 236-243, 1981
- 107) 矢島義昭、成井 貴、石井元康、他. 脂肪肝のCT診断—肝組織中総脂質値とCT number—. 肝臓 22: 651-655, 1981
- 108) 前田裕子、河合武司、金崎美樹、他. 脂肪肝のCT値について. 日本医学放射線学会誌 41: 489-496, 1981
- 109) Adler M, Shaffner F.: Fatty liver hepatitis and cirrhosis in obese patients. Am J Med 67: 811-816, 1979
- 110) 清水寛子. 小児の過栄養性脂肪肝の検討 第1編—肥満児の脂肪肝の診断と減量に伴う検査値の変動について—. 日児栄消誌2: 15-22, 1988
- 111) 加藤活大、高山哲夫、佐野 博、他. CTによる脂肪肝の臨床的検討. 肝臓 25: 1097-1103, 1984
- 112) Iwata F, Taniguchi K, Yamazaki H, et al. Intra-abdominal fat in obese children. Acta Paediatr Jpn 37: 617-620, 1995
- 113) Erickson JC, Hollopeter G, Palmiter RD. Attenuation of the obesity syndrome of *ob/ob* mice by the loss of neuropeptide Y. Science 274: 1704-1707, 1996
- 114) Giacobino JP. β_3 -adrenoceptor: an update. Eur J Endocrinol 132: 377-385, 1995
- 115) Lafontan M, Berlan M. Fat cell adrenergic receptors and the control of white and brown fat cell function. J Lipid Res 34: 1057-1091, 1993
- 116) Lönnqvist F, Krief S, Strösberg AD, et al. Evidence for a functional β_3 -adrenoceptor in man. Br J Pharmacol 110: 929-936, 1993
- 117) Collins S, Daniel KW, Rohfs EM, et al. Impaired expression and functional activity of the β_3 - and β_1 -adrenergic receptors in adipose tissue of congenitally obese (C57BL/6J *ob/ob*) mice. Mol Endocrinol 8:

518-527, 1994

- 118) Lönnqvist F, Thorne A, Nilsell K, et al. A pathogenic role of visceral fat β_3 -adrenoceptors in obesity. *J Clin Invest* 95: 1109-1116, 1995
- 119) Emorine LJ, Marullo S, Briand-Sutren MM, et al. Molecular characterization of the human β_3 -adrenergic receptor. *Science* 245: 1118-1121, 1989
- 120) Pietri-Rouxel F, St Jhon Manning B, Gros J, Strosberg AD. The biochemical effect of the naturally occurring Trp64→Arg mutation of human β_3 -adrenoceptor activity. *Eur J Biochem* 247: 1174-1179, 1997
- 121) Mahmoudian M. The complex of human Gs protein with the β_3 adrenergic receptor: A computer-aided molecular modeling study. *J Mol Graphics* 12: 22-28, 1994
- 122) Strösberg AD. Adrenergic, dopaminergic, and histaminergic drugs: Structure, function, and regulation of the three β -adrenergic receptors. *Obesity Res* 3 (suppl.): 501S-505S, 1995
- 123) Susulic VS, Frederich RC, Lawitts J, et al. Targeted Disruption of the β_3 -adrenergic receptor gene. *J Biol Chem* 270: 29483-29492, 1995
- 124) Himes JH, Dietz WH. Guidelines for overweight in adolescent preventive services: recommendations from an expert committee. *Am J Clin Nutr* 59: 307-316, 1994
- 125) Sambrook J, Fritsch EF, Maniatis T. In vitro amplifications of DNA by the polymerase chain reaction. *Molecular cloning: a laboratory manual, second edition: 14.2-14.21*, Cold Spring Harbor Laboratory Press, New York. 1989
- 126) 遠藤数江、柳 久子、平野千秋、他. β_3 -アドレナリン受容体遺伝子変異 (Trp64Arg) と小児肥満. *動脈硬化* 25Suppl: 144, 1998

- 127) Wendorf M, Goldfine ID. Excavation of the Thrifty genotype. *Diabetes* 40: 161-165, 1991
- 128) Shen YT, Zhang H, Vatner SF. Peripheral vascular effects of beta-₃ adrenergic receptor stimulation in conscious dogs. *J Pharmacol Exp Ther* 268: 466-473, 1994
- 129) Berlan M, Galitzky J, Bousquet-Melou A, et al. beta-₃ adrenoceptor-mediated increase in cutaneous blood flow in the dog. *J Pharmacol Exp Ther* 268 : 1444-1451, 1994
- 130) 小児基準値研究班編. アラニンアミノトランスフェラーゼ (ALT) . 日本人小児の臨床検査基準値65-69, 財団法人日本公衆衛生協会, 東京, 1997
- 131) 日比逸郎、一色 玄、江木晋三、他. 「小児 (学童以上) における経口ブドウ糖負荷試験の実施方法と判定基準」の標準化に関する研究、その策定の資料討議過程ならびに適用による検定. *日本小児科学会誌*83: 1585, 1979
- 132) Ellis KJ. Visceral fat mass in childhood: a potential early marker for increased risk of cardiovascular disease. *Am J Clin Nutr* 65: 1887-1888, 1997
- 133) van Lenthe FJ, Kemper HCG, van Mechelen W, et al. Biological maturation and the distribution of subcutaneous fat from adolescence into adulthood: The Amsterdam Growth and Health Study. *Int J Obesity* 20: 121-129, 1996
- 134) Colon AR. Fatty liver syndrome. *Textbook of pediatric hepatology*. second edition: 146-170, Year Book Medical Publishers, Chicago. 1990
- 135) 山崎公恵、村田光範. 小児の脂肪肝. *肝胆膵*30: 837-841, 1995
- 136) Noguchi H, Tazawa Y, Nishinomiya F, et al. The relationship between serum transaminase activities and fatty liver in children with simple obesity. *Acta Paediatr Jpn* 37: 621-625, 1995

- 137) Clain DJ, Lefkowitz JH. Fatty liver disease in morbid obesity. *Gastroenterol Clin North Am* 16: 239-252, 1987
- 138) 中野雅行. "脂肪肝をめぐる最近の知見", 脂肪肝の肝生検組織診断. *肝胆膵*36: 329-333, 1998
- 139) 森 豊、横瀬琢男、横山淳一、他. インスリン分泌パターンからみた内臓脂肪蓄積の検討. *肥満研究* 1: 99-104, 1995
- 140) Goto T, Onuma T, Takabe, K, et al. The influence of fatty liver on insulin clearance and insulin resistance in non-diabetic Japanese subjects. *Int J Obesity* 19: 841-845, 1995
- 141) Banerji MA, Buckley MC, Chaiken RL, et al. Liver fat, serum triglycerides and visceral adipose tissue in insulin-sensitive and insulin-resistant black men with NIDDM. *Int J Obesity* 19: 846-850, 1995
- 142) 浜口朋也、松沢佑次. インスリン抵抗性の発症機序2, 肥満. *Mebio*別冊: 42-48, 1999
- 143) Atef N, Lafontan M, Double A, et al. A specific β_3 -adrenoceptor agonist induces increased pancreatic islet blood flow and insulin secretion in rats. *Eur J Pharmacol* 298: 287-292, 1996
- 144) Sakane N, Yoshida T, Yoshioka K, et al. β_3 -adrenoreceptor gene polymorphism: a newly identified risk factor for proliferative retinopathy in NIDDM patients. *Diabetes* 46: 1633-1636, 1997