

## Appendix - Supplementary references

(reviewed because they meet the first inclusion criterion, but not included because they did not meet subsequent criteria)

### REFERENCES EXCLUDED

46. Freitas ED, Haddad JP, Velasquez-Melendez G. (2009) A multidimensional exploration of metabolic syndrome components. *Cad Saude Publica* 25, 1073-82.

47. Huffman FG, Gomez GP, Zarini GG. (2009) Metabolic syndrome and high-sensitivity C-reactive protein in Cubans. *Ethn Dis* 19, 115-20.

48. Noel SE, Newby PK, Ordovas JM, et al. (2009) A traditional rice and beans pattern is associated with metabolic syndrome in Puerto Rican older adults. *J Nutr* 139, 1360-7.

49. Villa-Roel C, Buitrago A, Rodriguez DC, et al. (2009) Prevalence of metabolic syndrome in scholars from Bucaramanga, Colombia: a population-based study. *BMC Pediatr* 9, 28.

50. Holst-Schumacher I, Nunez-Rivas H, Monge-Rojas R, et al. (2009) Components of the metabolic syndrome among a sample of overweight and obese Costa Rican schoolchildren. *Food Nutr Bull* 30, 161-70.

51. Vella CA, Zubia RY, Ontiveros D, et al. (2009) Physical activity, cardiorespiratory fitness, and metabolic syndrome in young Mexican and Mexican-American women. *Appl Physiol Nutr Metab* 34, 10-7.

52. Rosero-Bixby L, Dow WH. (2009) Surprising SES Gradients in mortality, health, and biomarkers in a Latin American population of adults. *J Gerontol B Psychol Sci Soc Sci* 64, 105-17.

53. Dalacorte RR, Reichert CL, Vieira JL. (2009) Metabolic syndrome and physical activity in southern Brazilian community-dwelling elders: a population-based, cross-sectional study. *BMC Public Health* 9, 25.

54. Truong H, DiBello JR, Ruiz-Narvaez E, et al. (2009) Does genetic variation in the Delta6-desaturase promoter modify the association between alpha-linolenic acid and the prevalence of metabolic syndrome? *Am J Clin Nutr* 89, 920-5.

55. Gurrola-Diaz CM, Sanchez-Enriquez S, Oregon-Romero E, et al. (2009) Establishment of a cut-point value of serum TNF-alpha levels in the metabolic syndrome. *J Clin Lab Anal* 23, 51-6.

56. Lima Mde L, Cruz T, Rodrigues LE, et al. (2009) Serum and intracellular magnesium deficiency in patients with metabolic syndrome--evidences for its relation to insulin resistance. *Diabetes Res Clin Pract* 83, 257-62.
57. Pedrozo W, Rascon MC, Bonneau G, et al. (2008) Metabolic syndrome and risk factors associated with life style among adolescents in a city in Argentina, 2005. *Rev Panam Salud Publica* 24, 149-60.
58. de Santana IA, Moura GS, Vieira NF, et al. (2008) Metabolic syndrome in patients with prostate cancer. *Sao Paulo Med J* 126, 274-8.
59. Sirit Y, Acero C, Bellorin M, et al. (2008) Metabolic syndrome and other factors cardiovascular risk in workers of a plant of vinyl polychloride. *Rev Salud Publica (Bogotá)* 10, 239-49.
60. Gregory CO, McCullough ML, Ramirez-Zea M, et al. (2009) Diet scores and cardiometabolic risk factors among Guatemalan young adults. *Br J Nutr* 101, 1805-11.
61. Rossi M, Serpa Neto A, Rossi FM, et al. (2009) Percentage of excess BMI lost correlates better with improvement of metabolic syndrome after Roux-en-Y gastric bypass in morbidly obese subjects: anthropometric indexes and gastric bypass. *Surg Obes Relat Dis* 5, 11-8.
62. Hirschler V, Bugna J, Roque M, et al. (2008) Does low birth weight predict obesity/overweight and metabolic syndrome in elementary school children? *Arch Med Res* 39, 796-802.
63. Strufaldi MW, Silva EM, Puccini RF. (2008) Metabolic syndrome among prepubertal Brazilian schoolchildren. *Diab Vasc Dis Res* 5, 291-7.
64. Chavez-Tapia NC, Tellez-Avila FI, Valdes-Escarcega M, et al. (2008) Metabolic syndrome and estimates of cardiovascular disease in cirrhotic patients. *J Dig Dis* 9, 149-55.
65. Lopes NH, Paulitsch FS, Pereira AC, et al. (2008) Impact of metabolic syndrome on the outcome of patients with stable coronary artery disease: 2-year follow-up of the MASS II study. *Coron Artery Dis* 19, 383-8.

66. Cavagioni LC, Bensenor IM, Halpern A, et al. (2008) Metabolic Syndrome in professional truck drivers who work on Highway BR-116 within the area of Sao Paulo City - Regis Bittencourt. *Arq Bras Endocrinol Metabol* 52, 1015-23.
67. Tellez-Avila FI, Sanchez-Avila F, Garcia-Saenz-de-Sicilia M, et al. (2008) Prevalence of metabolic syndrome, obesity and diabetes type 2 in cryptogenic cirrhosis. *World J Gastroenterol* 14, 4771-5.
68. Caceres M, Teran CG, Rodriguez S, et al. (2008) Prevalence of insulin resistance and its association with metabolic syndrome criteria among Bolivian children and adolescents with obesity. *BMC Pediatr* 8, 31.
69. Ventura EE, Davis JN, Alexander KE, et al. (2008) Dietary intake and the metabolic syndrome in overweight Latino children. *J Am Diet Assoc* 108, 1355-9.
70. Seki M, Matsuo T, Carrilho AJ. (2009) Prevalence of metabolic syndrome and associated risk factors in Brazilian schoolchildren. *Public Health Nutr* 12, 947-52.
71. Vilar L, Oliveira CP, Faintuch J, et al. (2008) High-fat diet: a trigger of non-alcoholic steatohepatitis? Preliminary findings in obese subjects. *Nutrition* 24, 1097-102.
72. Diehl LA, Dias JR, Paes AC, et al. (2008) Prevalence of HIV-associated lipodystrophy in Brazilian outpatients: relation with metabolic syndrome and cardiovascular risk factors. *Arq Bras Endocrinol Metabol* 52, 658-67.
73. Neira CP, Hartig M, Cowan PA, et al. (2009) The prevalence of impaired glucose metabolism in Hispanics with two or more risk factors for metabolic syndrome in the primary care setting. *J Am Acad Nurse Pract* 21, 173-8.
74. de Araujo FF, Barbieri M, Guazzelli CA, et al. (2008) The T 380A intrauterine device: a retrospective 5-year evaluation. *Contraception* 78, 474-8.
75. Ferreira SR, Gimeno SG, Hirai AT, et al. (2008) Effects of an intervention in eating habits and physical activity in Japanese-Brazilian women with a high prevalence of metabolic syndrome in Bauru, Sao Paulo State, Brazil. *Cad Saude Publica* 24 Suppl 2, S294-302.

76. Caranti DA, Lazzer S, Damaso AR, et al. (2008) Prevalence and risk factors of metabolic syndrome in Brazilian and Italian obese adolescents: a comparison study. *Int J Clin Pract* 62, 1526-32.
77. Deram S, Nicolau CY, Perez-Martinez P, et al. (2008) Effects of perilipin (PLIN) gene variation on metabolic syndrome risk and weight loss in obese children and adolescents. *J Clin Endocrinol Metab* 93, 4933-40.
78. Samudrala N, Farook VS, Dodd GD, et al. (2008) Autosomal genome-wide linkage analysis to identify loci for gallbladder wall thickness in Mexican Americans. *Hum Biol* 80, 11-28.
79. Negron AM, Molina MJ, Mayor AM, et al. (2008) Factors associated with metabolic syndrome in patients with systemic lupus erythematosus from Puerto Rico. *Lupus* 17, 348-54.
80. Rossi M, Barretto Ferreira da Silva R, Chaves Alcantara G, Jr., et al. (2008) Remission of metabolic syndrome: a study of 140 patients six months after Roux-en-Y gastric bypass. *Obes Surg* 18, 601-6.
81. Karnikowski M, Cordova C, Oliveira RJ, et al. (2007) Non-alcoholic fatty liver disease and metabolic syndrome in Brazilian middle-aged and older adults. *Sao Paulo Med J* 125, 333-7.
82. Alonso AL, Munguia-Miranda C, Ramos-Ponce D, et al. (2008) Waist perimeter cutoff points and prediction of metabolic syndrome risk. A study in a Mexican population. *Arch Med Res* 39, 346-51.
83. Aguilar-Salinas CA, Canizales-Quinteros S, Rojas-Martinez R, et al. (2007) Successful collaborations between three Mexican institutions for research on dislipidemias, obesity and diabetes. *Gac Med Mex* 143, 355-64.
84. Oliveira EP, Lima MD, Souza ML. (2007) Metabolic syndrome, its phenotypes, and insulin resistance by HOMA-IR. *Arq Bras Endocrinol Metabol* 51, 1506-15.
85. Teixeira PJ, Rocha FL. (2007) The prevalence of metabolic syndrome among psychiatric inpatients in Brazil. *Rev Bras Psiquiatr* 29, 330-6.

86. Pivatto I, Bustos P, Amigo H, et al. (2007) Association between proinsulin, insulin, proinsulin/insulin ratio, and insulin resistance status with the metabolic syndrome. *Arq Bras Endocrinol Metabol* 51, 1128-33.
87. Gonzalez Deschamps E, Palmeros Exsome C, Villanueva Sanchez J, et al. (2007) Metabolic syndrome prevalence and its association with the body mass index in university students. *Med Clin (Barc)* 129, 766-9.
88. Hirschler V, Roque MI, Calcagno ML, et al. (2007) Maternal waist circumference and the prediction of children's metabolic syndrome. *Arch Pediatr Adolesc Med* 161, 1205-10.
89. Attux C, Quintana MI, Chaves AC. (2007) Weight gain, dyslipidemia and altered parameters for metabolic syndrome on first episode psychotic patients after six-month follow-up. *Rev Bras Psiquiatr* 29, 346-9.
90. Diaz-Martinez L, Serrano N, Pinzon J, et al. (2007) Lack of association between metabolic syndrome and depressive symptoms in Colombian adults. *Rev Med Chil* 135, 990-6.
91. Bastarrachea RA, Kent JW, Jr., Rozada G, et al. (2007) Heritability and genetic correlations of metabolic disease-related phenotypes in Mexico: preliminary report from the GEMM Family Study. *Hum Biol* 79, 121-9.
92. Zonana-Nacach A, Santana-Sahagun E, Jimenez-Balderas FJ, et al. (2008) Prevalence and factors associated with metabolic syndrome in patients with rheumatoid arthritis and systemic lupus erythematosus. *J Clin Rheumatol* 14, 74-7.
93. Siqueira AF, Harima HA, Osiro K, et al. (2008) Lipid profile disturbances are highly prevalent in Japanese-Brazilians. *Arq Bras Endocrinol Metabol* 52, 40-6.
94. Negrato CA, Jovanovic L, Tambascia MA, et al. (2008) Mild gestational hyperglycaemia as a risk factor for metabolic syndrome in pregnancy and adverse perinatal outcomes. *Diabetes Metab Res Rev* 24, 324-30.
95. Shaibi GQ, Goran MI. (2008) Examining metabolic syndrome definitions in overweight Hispanic youth: a focus on insulin resistance. *J Pediatr* 152, 171-6.

96. de Oliveira CP, de Mello ES, Alves VA, et al. (2007) Changes in histological criteria lead to different prevalences of nonalcoholic steatohepatitis in severe obesity. *Ann Hepatol* 6, 255-61.
97. Marcos-Daccarett NJ, Nunez-Rocha GM, Salinas-Martinez AM, et al. (2007) Obesity as risk factor for metabolic disorder in Mexican adolescents, 2005. *Rev Salud Publica (Bogota)* 9, 180-93.
98. Nakazone MA, Pinheiro A, Braile MC, et al. (2007) Prevalence of metabolic syndrome using NCEP-ATPIII and IDF definitions in Brazilian individuals. *Rev Assoc Med Bras* 53, 407-13.
99. Marcondes JA, Hayashida SA, Barcellos CR, et al. (2007) Metabolic syndrome in women with polycystic ovary syndrome: prevalence, characteristics and predictors. *Arq Bras Endocrinol Metabol* 51, 972-9.
100. Foucan L, Vaillant J. (2007) Hypertension in the metabolic syndrome among Caribbean non diabetic subjects. *Arch Mal Coeur Vaiss* 100, 649-53.
101. Ezenwaka CE, Nwagbara E, Seales D, et al. (2007) A comparative study of the prevalence of the metabolic syndrome and its components in type 2 diabetic patients in two Caribbean islands using the new International Diabetes Federation definition. *Arch Physiol Biochem* 113, 202-10.
102. Hirschler V, Calcagno ML, Aranda C, et al. (2007) Can the metabolic syndrome identify children with insulin resistance? *Pediatr Diabetes* 8, 272-7.
103. Cardoso-Saldana G, Juarez-Rojas JG, Zamora-Gonzalez J, et al. (2007) C-reactive protein levels and their relationship with metabolic syndrome and insulin resistance in Mexican adolescents. *J Pediatr Endocrinol Metab* 20, 797-805.
104. Coelho FA, Moutinho MA, Miranda VA, et al. (2007) The association between metabolic syndrome and its components and heart failure in patients referred to a primary care facility. *Arq Bras Cardiol* 89, 42-51.
105. Caranti DA, de Mello MT, Prado WL, et al. (2007) Short- and long-term beneficial effects of a multidisciplinary therapy for the control of metabolic syndrome in obese adolescents. *Metabolism* 56, 1293-300.

106. Gallo LC, de los Monteros KE, Ferent V, et al. (2007) Education, psychosocial resources, and metabolic syndrome variables in Latinas. *Ann Behav Med* 34, 14-25.
107. Schwingel A, Nakata Y, Ito LS, et al. (2007) A comparison of the prevalence of the metabolic syndrome and its components among native Japanese and Japanese Brazilians residing in Japan and Brazil. *Eur J Cardiovasc Prev Rehabil* 14, 508-14.
108. Santos RD, Nasir K, Tufail K, et al. (2007) Metabolic syndrome is associated with coronary artery calcium in asymptomatic white Brazilian men considered low-risk by Framingham risk score. *Prev Cardiol* 10, 141-6.
109. Aleman-Mateo H, Esparza-Romero J, Romero RU, et al. (2008) Prevalence of malnutrition and associated metabolic risk factors for cardiovascular disease in older adults from Northwest Mexico. *Arch Gerontol Geriatr* 46, 375-85.
110. Pimenta E, Passarelli O, Jr., Borelli F, et al. (2007) Metabolic syndrome in patients undergoing coronary artery bypass graft: prevalence and a marker of morbidity/mortality during hospitalization and 30 days after hospital discharge. *Arq Bras Cardiol* 88, 413-7.
111. Soares EM, Azevedo GD, Gadelha RG, et al. (2008) Prevalence of the metabolic syndrome and its components in Brazilian women with polycystic ovary syndrome. *Fertil Steril* 89, 649-55.
112. Lizardi-Cervera J, Laparra DI, Chavez-Tapia NC, et al. (2006) Prevalence of NAFLD and metabolic syndrome in asymptomatic subjects. *Rev Gastroenterol Mex* 71, 453-9.
113. Roesch-Dietlen F, Dorantes-Cuellar A, Carrillo-Toledo MG, et al. (2006) Frequency of NAFLD in a group of patients with metabolic syndrome in Veracruz, Mexico. *Rev Gastroenterol Mex* 71, 446-52.
114. Halley Castillo E, Borges G, Talavera JO, et al. (2007) Body mass index and the prevalence of metabolic syndrome among children and adolescents in two Mexican populations. *J Adolesc Health* 40, 521-6.
115. Ramirez-Vargas E, Arnaud-Vinas Mdel R, Delisle H. (2007) Prevalence of the metabolic syndrome and associated lifestyles in adult males from Oaxaca, Mexico. *Salud Publica Mex* 49, 94-102.

116. Williams ES, Baylin A, Campos H. (2007) Adipose tissue arachidonic acid and the metabolic syndrome in Costa Rican adults. *Clin Nutr* 26, 474-82.
117. Yaffe K, Haan M, Blackwell T, et al. (2007) Metabolic syndrome and cognitive decline in elderly Latinos: findings from the Sacramento Area Latino Study of Aging study. *J Am Geriatr Soc* 55, 758-62.
118. Piovesana Pde M, Colombo RC, Gallani MC. (2006) Hypertensive patients and risk factors related to physical activity and nutrition. *Rev Gaucha Enferm* 27, 557-63.
119. Royer M, Castelo-Branco C, Blumel JE, et al. (2007) The US National Cholesterol Education Programme Adult Treatment Panel III (NCEP ATP III): prevalence of the metabolic syndrome in postmenopausal Latin American women. *Climacteric* 10, 164-70.
120. Gregory CO, Dai J, Ramirez-Zea M, et al. (2007) Occupation is more important than rural or urban residence in explaining the prevalence of metabolic and cardiovascular disease risk in Guatemalan adults. *J Nutr* 137, 1314-9.
121. Ryder E, Silva E, Sulbaran T, et al. (2007) Black Hispanics have a worse cardiovascular risk profile than mixed Hispanics in Venezuela. *Invest Clin* 48, 45-55.
122. Burrows AR, Leiva BL, Weistaub G, et al. (2007) Prevalence of metabolic syndrome in a sample of Chilean children consulting in an obesity clinic. *Rev Med Chil* 135, 174-81.
123. Souza FC, Silva MI, Motta EM, et al. (2007) Prevalence of risk factors for cardiovascular disease in Brazilian renal transplant recipients. *Transplant Proc* 39, 446-8.
124. Ferreira-Filho SR, da Silva Passos L, Ribeiro MB. (2007) Corporeal weight gain and metabolic syndrome in living kidney donors after nephrectomy. *Transplant Proc* 39, 403-6.
125. Roriz-Cruz M, Rosset I, Wada T, et al. (2007) Stroke-independent association between metabolic syndrome and functional dependence, depression, and low quality of life in elderly community-dwelling Brazilian people. *J Am Geriatr Soc* 55, 374-82.
126. Lopez-Jaramillo P, Pradilla LP, Castillo VR, et al. (2007) Socioeconomic pathology as a cause of regional differences in the prevalence of metabolic syndrome and pregnancy-induced hypertension. *Rev Esp Cardiol* 60, 168-78.



127. Borges PK, Gimeno SG, Tomita NE, et al. (2007) Prevalence and characteristics associated with metabolic syndrome in Japanese-Brazilians with and without periodontal disease. *Cad Saude Publica* 23, 657-68.
128. Gao X, Nelson ME, Tucker KL. (2007) Television viewing is associated with prevalence of metabolic syndrome in Hispanic elders. *Diabetes Care* 30, 694-700.
129. Hashimoto SM, Gimeno SG, Matsumura L, et al. (2007) Autoimmunity does not contribute to the highly prevalent glucose metabolism disturbances in a Japanese Brazilian population. *Ethn Dis* 17, 78-83.
130. Leite ML, Nicolosi A, Firmo JO, et al. (2007) Features of metabolic syndrome in nondiabetic Italians and Brazilians: a discriminant analysis. *Int J Clin Pract* 61, 32-8. 28
131. Doro AR, Gimeno SG, Hirai AT, et al. (2006) Analysis on the association of physical activity with metabolic syndrome in a population-based study of Japanese-Brazilians. *Arq Bras Endocrinol Metabol* 50, 1066-74.
132. Perichart-Perera O, Balas-Nakash M, Schiffman-Selechnik E, et al. (2007) Obesity increases metabolic syndrome risk factors in school-aged children from an urban school in Mexico city. *J Am Diet Assoc* 107, 81-91.
133. Santos RD, Nasir K, Orakzai R, et al. (2007) Relation of uric acid levels to presence of coronary artery calcium detected by electron beam tomography in men free of symptomatic myocardial ischemia with versus without the metabolic syndrome. *Am J Cardiol* 99, 42-5.
134. Ferreira AP, Oliveira CE, Franca NM. (2007) Metabolic syndrome and risk factors for cardiovascular disease in obese children: the relationship with insulin resistance (HOMA-IR). *J Pediatr (Rio J)* 83, 21-6.
135. Gonzalez-Ortiz M, Martinez-Abundis E, Jacques-Camarena O, et al. (2006) Prevalence of metabolic syndrome in adults with excess of adiposity: comparison of the adult Treatment Panel III criteria with the International Diabetes Federation definition. *Acta Diabetol* 43, 84-6.
136. Barbosa PJ, Lessa I, de Almeida Filho N, et al. (2006) Criteria for central obesity in a Brazilian population: impact on metabolic syndrome. *Arq Bras Cardiol* 87, 407-14.

137. Aguilar-Salinas CA, Rojas R, Gonzalez-Villalpando C, et al. (2006) Design and validation of a population-based definition of the metabolic syndrome. *Diabetes Care* 29, 2420-6.
138. Siqueira AF, Franco LJ, Gimeno SG, et al. (2007) Macrovascular disease in a Japanese-Brazilian population of high prevalence of metabolic syndrome: associations with classical and non-classical risk factors. *Atherosclerosis* 195, 160-6.
139. Zonana-Nacach A, Castillon-Chapa MA. (2006) Frequency of the metabolic syndrome among overweight and obese patients in a primary health care facility in northern Mexico. *Gac Med Mex* 142, 299-301.
140. Hidalgo LA, Chedraui PA, Morocho N, et al. (2006) The metabolic syndrome among postmenopausal women in Ecuador. *Gynecol Endocrinol* 22, 447-54.
141. Roriz-Cruz M, Rosset I, Wada T, et al. (2007) Cognitive impairment and frontalsubcortical geriatric syndrome are associated with metabolic syndrome in a strokefree population. *Neurobiol Aging* 28, 1723-36.
142. Chavez-Tapia NC, Lizardi-Cervera J, Perez-Bautista O, et al. (2006) Smoking is not associated with nonalcoholic fatty liver disease. *World J Gastroenterol* 12, 5196-200.
143. de Oliveira EP, de Souza ML, de Lima MD. (2006) Prevalence of metabolic syndrome in a semi-arid rural area in Bahia. *Arq Bras Endocrinol Metabol* 50, 456-65.
144. Damiao R, Castro TG, Cardoso MA, et al. (2006) Dietary intakes associated with metabolic syndrome in a cohort of Japanese ancestry. *Br J Nutr* 96, 532-8.
145. Barbieri MA, Bettiol H, Silva AA, et al. (2006) Health in early adulthood: the contribution of the 1978/79 Ribeirao Preto birth cohort. *Braz J Med Biol Res* 39, 1041-55.
146. Echavarria-Pinto M, Hernandez-Lomeli A, Alcocer-Gamba MA, et al. (2006) Metabolic syndrome in adults from 20 to 40 years old in a rural Mexican community. *Rev Med Inst Mex Seguro Soc* 44, 329-35.
147. Bustos P, da Silva AA, Amigo H, et al. (2007) Metabolic syndrome in young adults from two socioeconomic Latin American settings. *Nutr Metab Cardiovasc Dis* 17, 581-9.

148. Pinkston MM, Poston WS, Reeves RS, et al. (2006) Does metabolic syndrome mitigate weight loss in overweight Mexican American women treated for 1-year with orlistat and lifestyle modification? *Eat Weight Disord* 11, e35-41.
149. Chedraui P, Hidalgo L, Chavez D, et al. (2007) Quality of life among postmenopausal Ecuadorian women participating in a metabolic syndrome screening program. *Maturitas* 56, 45-53.
150. Guerrero-Romero F, Rodriguez-Moran M. (2006) Hypomagnesemia, oxidative stress, inflammation, and metabolic syndrome. *Diabetes Metab Res Rev* 22, 471-6.
151. Chen HJ, Bai CH, Yeh WT, et al. (2006) Influence of metabolic syndrome and general obesity on the risk of ischemic stroke. *Stroke* 37, 1060-4.
152. Lorenzo C, Serrano-Rios M, Martinez-Larrad MT, et al. (2006) Geographic variations of the International Diabetes Federation and the National Cholesterol Education 30 Program-Adult Treatment Panel III definitions of the metabolic syndrome in nondiabetic subjects. *Diabetes Care* 29, 685-91.
153. Aviles-Santa L, Salinas K, Adams-Huet B, et al. (2006) Anthropometric features and cardiovascular risk in young Latin Americans with type 2 diabetes mellitus. *J Diabetes Complications* 20, 69-74.
154. Lanz JR, Pereira AC, Martinez E, et al. (2006) Metabolic syndrome and coronary artery disease: is there a gender specific effect? *Int J Cardiol* 107, 317-21.
155. Rabelo Acevedo M, Vick MR. (2005) Association between the polycystic ovary syndrome and the metabolic syndrome in Puerto Rico. *P R Health Sci J* 24, 203-6.
156. Guerrero-Romero F, Rodriguez-Moran M. (2006) Lowered criterion for normal fasting plasma glucose: impact on the detection of impaired glucose tolerance and metabolic syndrome. *Arch Med Res* 37, 140-4.
157. Butte NF, Comuzzie AG, Cole SA, et al. (2005) Quantitative genetic analysis of the metabolic syndrome in Hispanic children. *Pediatr Res* 58, 1243-8.
158. Pousada JM, Britto MM, Cruz T, et al. (2006) The metabolic syndrome in Spanish migrants to Brazil: unexpected results. *Diabetes Res Clin Pract* 72, 75-80.

159. Lorenzo C, Williams K, Gonzalez-Villalpando C, et al. (2005) The prevalence of the metabolic syndrome did not increase in Mexico City between 1990-1992 and 1997-1999 despite more central obesity. *Diabetes Care* 28, 2480-5.
160. Garcia de Quevedo-Landa I, Vega-Franco L, Inarritu Mdel C, et al. (2005) Somatic, biochemical and arterial pressure at the end of adolescence, according to weight at birth. *Gac Med Mex* 141, 297-303.
161. Freire RD, Cardoso MA, Gimeno SG, et al. (2005) Dietary fat is associated with metabolic syndrome in Japanese Brazilians. *Diabetes Care* 28, 1779-85.
162. Nannipieri M, Gonzales C, Baldi S, et al. (2005) Liver enzymes, the metabolic syndrome, and incident diabetes: the Mexico City diabetes study. *Diabetes Care* 28, 1757-62.
163. Rosenbaum P, Gimeno SG, Sanudo A, et al. (2005) Analysis of criteria for metabolic syndrome in a population-based study of Japanese-Brazilians. *Diabetes Obes Metab* 7, 352-9.
164. Mendez-Sanchez N, Chavez-Tapia NC, Motola-Kuba D, et al. (2005) Metabolic syndrome as a risk factor for gallstone disease. *World J Gastroenterol* 11, 1653-7.
165. Mendez-Sanchez N, Bahena-Aponte J, Chavez-Tapia NC, et al. (2005) Strong association between gallstones and cardiovascular disease. *Am J Gastroenterol* 100, 827-30.
166. Alvarez-Martinez HE, Perez-Campos E, Leyva-Bohorquez P. (2005) Prevalence of non-alcoholic esteatohepatitis in adults with metabolic syndrome in Oaxaca. *Gac Med Mex* 141, 7-12.
167. da Silva RC, Miranda WL, Chacra AR, et al. (2005) Metabolic syndrome and insulin resistance in normal glucose tolerant brazilian adolescents with family history of type 2 diabetes. *Diabetes Care* 28, 716-8.
168. Costa LA, Canani LH, Lisboa HR, et al. (2004) Aggregation of features of the metabolic syndrome is associated with increased prevalence of chronic complications in Type 2 diabetes. *Diabet Med* 21, 252-5.

169. Sanchez-Corona J, Flores-Martinez SE, Machorro-Lazo MV, et al. (2004) Polymorphisms in candidate genes for type 2 diabetes mellitus in a Mexican population with metabolic syndrome findings. *Diabetes Res Clin Pract* 63, 47-55.
170. Vazquez Vigoa A, Vazquez Cruz A, Calderin RO, et al. (2003) Metabolic syndrome in patients with essential hypertension. *Nefrologia* 23, 423-31.
171. Bustos P, Amigo H, Arteaga A, et al. (2003) Risk factors of cardiovascular disease among young adults. *Rev Med Chil* 131, 973-80.
172. Barja S, Arteaga A, Acosta AM, et al. (2003) Insulin resistance and other expressions of metabolic syndrome in obese Chilean children. *Rev Med Chil* 131, 259-68.
173. Ribeiro-Filho FF, Faria AN, Kohlmann NE, et al. (2003) Two-hour insulin determination improves the ability of abdominal fat measurement to identify risk for the metabolic syndrome. *Diabetes Care* 26, 1725-30.
174. Freire RD, Cardoso MA, Shinzato AR, et al. (2003) Nutritional status of JapaneseBrazilian subjects: comparison across gender and generation. *Br J Nutr* 89, 705-13.
175. Guerrero-Romero F, Rodriguez-Moran M. (2003) Relation of C-reactive protein to features of the metabolic syndrome in normal glucose tolerant, impaired glucose tolerant, and newly diagnosed type 2 diabetic subjects. *Diabetes Metab* 29, 65-71.
176. Lerman I, Villa AR, Rios Torres JM, et al. (2003) Correlations between surrogate measures of insulin resistance and cardiovascular risk factors in obese and overweight patients. *J Diabetes Complications* 17, 66-72.
177. Guerrero-Romero F, Rodriguez-Moran M. (2002) Low serum magnesium levels and metabolic syndrome. *Acta Diabetol* 39, 209-13.
178. Han TS, Sattar N, Williams K, et al. (2002) Prospective study of C-reactive protein in relation to the development of diabetes and metabolic syndrome in the Mexico City Diabetes Study. *Diabetes Care* 25, 2016-21.
179. Rodriguez-Moran M, Guerrero-Romero F. (2001) The parental phenotype of diabetes, but not of essential hypertension, is linked to the development of metabolic syndrome in Mexican individuals. *Acta Diabetol* 38, 87-91.

180. Rigo JC. (2009) Prevalence of metabolic syndrome in an elderly community: comparison between three diagnostic methods. *Arq Bras Cardiol* 93, 80-6.
181. Monteiro FD, da Silva WS, Salgado N, et al. (2009) Effects of weight loss induced by bariatric surgery on the prevalence of metabolic syndrome. *Arq Bras Cardiol* 92, 418-22.
182. Pereira-Franco GP, Nazario-Scala LC, Alves CJ, et al. (2009) Metabolic syndrome in patients with high blood pressure in Cuiaba - Mato Grosso State: prevalence and associated factors. *Arq Bras Cardiol* 92, 437-42.
183. Ramirez-Cortes G, Fuentes-Velasco Y, Garcia-Roca P, et al. (2009) Prevalence of metabolic syndrome and obesity in renal transplanted Mexican children. *Pediatr Transplant* 13, 579-84.
184. de Pontes LM, Cirilo de Sousa MS. (2009) Nutritional status and prevalence of metabolic syndrome in amateur soccer players. *Rev Bras Med Esporte* 15, 185-9.
185. Scheffel RS, Kramer CK, Rados DV, et al. (2008) The prevalence of chronic diabetic complications and metabolic syndrome is not associated with maternal type 2 diabetes. *Braz J Med Biol Res* 41, 1123-8.
186. Arias J, Telleria AL, Garcia E, et al. (2008) Prevalence of the metabolic syndrome in hypertensive patients in the Sierra falconiana. *Rev Latinoam Hipertens* 3, 80-3.
187. Benitez R, Sir-Petermann T, Palomino A, et al. (2001) Prevalence of metabolic disorders among family members of patients with polycystic ovary syndrome. *Rev Med Chil* 129, 707-12.
188. Cárdenas-Quintana H, Sánchez-Abanto J, Roldán-Arbieto L, et al. (2009) Prevalencia del síndrome metabólico en personas a partir de 20 años de edad: Perú, 2005. *Rev Esp Salud Pública* 83, 257-65.
189. Barja S, Acevedo M, Arnaiz P, et al. (2009) Marcadores de aterosclerosis temprana y síndrome metabólico en niños. *Rev Med Chile* 137, 522-30.
190. Maksimovic M, Vlajinac H, Radak D, et al. (2009) Frecuencia y características del síndrome metabólico en pacientes con estenosis carotídea sintomática. *Rev Med Chile* 137, 329-36.

191. Monteiro CMC, Oliveira L, Izar MCO, et al. (2009) Perfil glucometabólico inicial en pacientes con síndrome coronario agudo y síndrome metabólico. *Arq Bras Cardiol* 92, 94-9.
192. Oliveira RMS, Franceschini SCC, Rosado GP, et al. (2009) Influencia del estado nutricional previo sobre el desarrollo del síndrome metabólico en adultos. *Arq Bras Cardiol* 92, 107-12.
193. Gutiérrez-Guisado J, López-Manzano JJ, Rodríguez-Cid J, et al. (2008) Prevalencia de síndrome metabólico en población laboral: El corazón de Asepeyo. *An Med Interna* 25, 325-30.
194. Ferrada C, Molina M, Cid L, et al. (2007) Relación entre diabetes gestacional y síndrome metabólico. *Rev Med Chile* 135, 1539-45.
195. Aschner-Montoya P. (2007) Síndrome metabólico en una población rural y una población urbana de la región andina colombiana. *Rev Fac Med* 15, 154-62.
196. Lombo B, Satizábal C, Villalobos C, et al. (2007) Prevalencia del síndrome metabólico en pacientes diabéticos. *Acta Med Colomb* 32, 9-15.
197. Arpa-Gámez A, González-Sotolongo O, Roldós-Cuza E, et al. (2007) El síndrome metabólico como factor de riesgo para la disfunción endotelial. *Rev Cuba Med Mil* 36, 0-.
198. Renna N, Vázquez M, González S, et al. (2007) Expresión vascular de factores de transcripción proinflamatorios en un modelo de síndrome metabólico. *Rev Argent Cardiol* 75, 36-41.
199. Regidor E, Gutiérrez-Fisac JL, Banegas JR, et al. (2007) Influencia a lo largo de la vida de las circunstancias socioeconómicas, de la inactividad física y de la obesidad sobre la presencia de síndrome metabólico. *Rev Esp Salud Pública* 81, 25-31.
200. Villalpando S, Carrión C, Barquera S, et al. (2007) Asociación entre índice de masa corporal, hiperglicemia y alteraciones de los componentes del síndrome metabólico en adolescentes mexicanos. *Salud Publica Mex* 49, s324-s30.
201. Hirschler V, Calcagno ML, Aranda C, et al. (2006) Síndrome metabólico en la infancia y su asociación insulinoresistencia. *Arch Argent Pediatr* 104, 486-91.

202. Cabalé-Vilariño MB, Sánchez-Serrano D, Flores-Sánchez A. (2006) Prevalencia del síndrome metabólico en dislipidémicos. *Rev Cubana Med* 45, 0-.
203. Araya-Q AV, Valera-M JM, Contreras-B J, et al. (2006) Alteraciones de la tolerancia a la glucosa y frecuencia de síndrome metabólico en pacientes con enfermedad por hígado graso no alcohólico. *Rev Med Chile* 134, 1092-8.
204. López-Jaramillo P, Rueda-Clausen CF, Ramírez F, et al. (2006) Las diferencias en los criterios diagnósticos de síndrome metabólico son útiles para identificar sujetos en riesgo, pero pierden relevancia en pacientes con enfermedad coronaria. *Rev Colomb Cardiol* 13, 7-12.
205. Lombo B, Villalobos C, Tique C, et al. (2006) Prevalencia del síndrome metabólico entre los pacientes que asisten al servicio clínica de hipertensión de la Fundación Santa Fe de Bogotá. *Rev Colomb Cardiol* 12, 472-8.
206. Castillo S, Bonneau G, Sánchez A, et al. (2005) Factores de riesgo aterogénico y síndrome metabólico: estudio en un grupo de empleados públicos hospitalarios de Posadas, Misiones, Argentina. *Acta Bioquím Clín Latinoam* 39, 445-52.
207. Arpa-Gámez A, González-Sotolongo O, Felinciano-Álvarez V, et al. (2005) Síndrome metabólico como factor de riesgo en la enfermedad cerebrovascular. *Rev Cuba Med Mil* 34, 0-.
208. Calderín-Bouza RO, Yáñez-Quesada MA, Márquez-Pérez I, et al. (2005) Síndrome metabólico en familiares de primer grado de pacientes con diabetes mellitus tipo 2. *Rev Cuba Endocrinol* 16, 0-.
209. García R, Silva S, Ramírez F, et al. (2005) El síndrome metabólico en la población colombiana cursa con concentraciones aumentadas de marcadores inflamatorios, pero no de dimetilarginina asimétrica. *Acta Med Colomb* 30, 85-91.
210. González-Sotolongo O, Arpa-Gámez A, Herrera-Arrebato D, et al. (2005) Valoración de la insulinoresistencia en pacientes con síndrome metabólico. *Rev Cuba Med Mil* 34, 0.
211. Hirschler V, Delfino AM, Clemente G, et al. (2005) ¿Es la circunferencia de cintura un componente del síndrome metabólico en la infancia? *Arch Argent Pediatr* 103, 7-13.



212. Duarte ER, Pellanda LC, Portal VL. (2005) Inflammatory, lipid, and metabolic profile in acute ischemic syndrome: correlation with hospital and posthospital events. *Arq Bras Cardiol* 84, 122-9.
213. Múscolo JM, D'Ambrosio ML, Núñez M, et al. (2004) Síndrome metabólico en mujeres obesas.: Evaluación de biomarcadores de resistencia insulínica y lipoproteicos. *Acta Bioquím Clín Latinoam* 38, 481-8.
214. Marcos-Sánchez F, Albo-Castaño MI, Árbol-Linde F, et al. (2004) Prevalencia del síndrome metabólico en pacientes con infección por el virus de la inmunodeficiencia humana. *An Med Interna* 21, 61-2.
215. Forga L, Corbalán M, Marti A, et al. (2008) Influencia del polimorfismo -3826 A &#8594; G en el gen de la UCP1 sobre los componentes del síndrome metabólico. *An Sist Sanit Navar* 26, 231-6.
216. Poy M, Wiltgen D, Spritzer PM. (2001) Perfil hormonal e metabólico em pacientes hirsutas com a síndrome dos ovários policísticos. *Arq Bras Endocrinol Metabol* 45, 352-60.
217. Alvarado-Soto V, Jiménez-Navarrete MF. (2003) Síndrome metabólico en pacientes diabéticos tipo 2 e intolerantes a carbohidratos del Ebais La Mansión, Nicoya. *Acta Med Costar* 45, 154-7.
218. Herrera JA, Shahabuddin AKM, Faisal M, et al. (2004) Efectos de la suplementación oral con calcio y ácido linoleico conjugado en primigrávidas de alto riesgo. *Colomb Med* 35, 31-7.
219. Molinas J, Torrent C, Pontón R, et al. (2008) Síndrome metabólico y alteración de la glicemia en ayunas en adultos de la Universidad del Centro Educativo Latinoamericano de Rosario. *Invenio* 11, 143-52.
220. Hernández-Torres MP, Ramos-Jiménez A, Gómez-Gómez E, et al. (2007) Modificación en los indicadores plasmáticos del metabolismo de los lípidos y glucosa, en respuesta a dos tipos de ejercicio aeróbico en población físicamente activa. *Rev Edu Bioq* 26, 83-92.

221. Soto-C V, Vergara-W E, Neciosup-P E. (2005) Prevalencia y factores de riesgo de síndrome metabólico en población adulta del Departamento de Lambayeque, Perú-2004. *Rev Peru Med Exp Salud Publica* 22, 254-61.
222. Norma-Alayón A, Alvear-Sedán C. (2006) Prevalencia de desórdenes del metabolismo de los glúcidos y perfil del diabético en Cartagena de Indias (Colombia), 2005. *Salud Uninorte* 22, 20-8.
223. Navarro-Lechuga E, Vargas-Moranth R. (2008) Síndrome metabólico en el suroccidente de Barranquilla (Colombia). *Salud Uninorte* 24, 40-52.
224. Paternina-Caicedo AJ, Alcala-Cerra G, Paillier-Gonzales J, et al. (2009) Agreement between three definitions of metabolic syndrome in hypertensive patients. *Rev Salud Publica (Bogotá)* 11, 898-908.
225. Campana EM, Brandao AA, Pozzan R, et al. (2009) Blood pressure in young individuals as a cardiovascular risk marker. The Rio de Janeiro study. *Arq Bras Cardiol* 93, 608-15, 57-65.
226. Bopp M, Barbiero S. (2009) Prevalence of metabolic syndrome in outpatients of the institute of cardiology of Rio Grande do Sul. *Arq Bras Cardiol* 93, 473-7.
227. Hirschler V, Oestreicher K, Maccallini G, et al. Relationship between obesity and metabolic syndrome among Argentinean elementary school children. *Clin Biochem* 43, 435-41.
228. Dias AM, Reis AF, Saud CG, et al. (2009) Severity of angiographic coronary obstruction and the apolipoprotein E polymorphism in acute coronary syndromes. *Arq Bras Cardiol* 93, 221-30.
229. Baez MS, Novik AV, Alegria GF, et al. (2009) Presence of metabolic syndrome among patients with type 7 diabetes mellitus. *Rev Med Chil* 137, 888-93.
230. Bellomio V, Spindler A, Lucero E, et al. (2009) Metabolic syndrome in Argentinean patients with systemic lupus erythematosus. *Lupus* 18, 1019-25.
231. Rodrigues SL, Baldo MP, de Sa Cunha R, et al. (2009) Salt excretion in normotensive individuals with metabolic syndrome: a population-based study. *Hypertens Res* 32, 906-10.