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Errata k diplomové práci

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SEZNAM POUŽITÉ LITERATURY

- ANDEL, M. 1997. Nutritional epidemiology in the Czech Republic after the fall of communism: problems with interpretation. *Nutrition*, 13(11-12):1008–1009.
- ARUNABH, S., POLLACK, S., YEH, J., ALOIA, J. F. 2003. Body fat content and 25-hydroxyvitamin D levels in health women. *Journal of Clinical Endocrinology and Metabolism*, 88(1):157–161.
- BALAKRISHNAN, R., WEBSTER, P., SINCLAIR, D. 2008. Trends in overweight and obesity among 5-7-year-old White and South Asian children born between 1991 and 1999. *Journal of Public Health*, 30(2):139–144.
- BENSON, L., BAER, H. J., KAELBER, D. C. 2009. Trends in the diagnosis of overweight and obesity in children and adolescents: 1999-2007. *Pediatrics*, 123(1):153-158.
- BERDYCHOVÁ, J. 1979. *Tělesná výchova pro pedagogické školy*. Praha: SPN.
- BHARGAVA, S. K., SACHDEV, H. S., FALL, C. H., OSMOND, C., LAKSHMY, R., BARKER, D. J., BISWAS, S. K., RAMJI, S., PRABHAKARAN, D., REDDY, K.S. 2004. Relation of serial changes in childhood body-mass index to impaired glucose tolerance in young adulthood. *The New England Journal of Medicine*, 350(9):865–875.
- BLÁHA, P. et al. 1990a. *Antropometrie českých předškolních dětí ve věku od 3 do 7 let, Díl 1*. Praha: Ústav sportovní medicíny.
- BLÁHA, P. et al. 1990b. *Antropometrie českých předškolních dětí ve věku od 3 do 7 let, Díl 2*. Praha: Ústav sportovní medicíny.
- BLÁHA, P., VIGNEROVÁ, J., PAULOVÁ, M., RIEDLOVÁ, J., KOBZOVÁ, J., KREJČOVSKÝ, L. 1999. *Vývoj tělesných parametrů českých dětí a mládeže se zaměřením na rozměry hlavy (0-16 let): Development of somatic parameters of Czech children and adolescents, focused on cephalic parameters (0-16 years)*. Praha: Státní zdravotní ústav.
- BLÁHA, P., VIGNEROVÁ, J., RIEDLOVÁ, J., KOBZOVÁ, J., KREJČOVSKÝ, L., BRABEC, M. 2005. *6. celostátní antropologický výzkum dětí a mládeže 2001, Česká republika: základní tělesné charakteristiky 0-19 let, percentilové grafy 0-18 let, rozměry hlavy dětí 0-6 let*. Praha: Státní zdravotní ústav.
- BOGIN, B. 1999. *Pattern of Human Growth*. Cambridge: Cambridge University Press.
- BRAMBILLA, P., MANZONI, P., SIRONI, S., SIMONE, P., DEL MASCHIO, A., DI NATALE, B., CHIUMELLO, G. 1994. Peripheral and abdominal adiposity in childhood obesity. *International Journal of Obesity*, 18(12):795-800.
- BRAY, G. A., DELANY, J. P., VOLAUFOVA, J., HARSHA, D. W., CHAMPAGNE, C. 2002. Prediction of body fat in 12-y-old African American and white children: evaluation of methods. *The American journal of clinical nutrition*, 76(5):980 –990.
- BURSOVÁ, M., RUBÁŠ, K. 2001. *Základy teorie tělesných cvičení*. Plzeň: Západočeská univerzita v Plzni.
- COHEN, J. 1988. *Statistical Power Analysis for the Behavioral Sciences*. Hillsdale, NJ: Lawrence Erlbaum Associates.

COHN, S. H. 1987. New concepts of body composition. In: ELLIS, K. J., YASUMURA, S., MORGAN, W. D. *In vivo body composition studies*. London: The Institute of Physical Sciences in Medicine.

COLE, T. J. 1986. Weight/height^p compared to weight/height² for assessing adiposity in childhood: influence of age and bone age on p during puberty. *Annals of Human Biology*, 13(5):433-451.

COLE, T. J. 1991. Weight-stature indices to measure underweight, overweight, and obesity. In: HIMES, J. E. *Anthropometric Assessment of Nutritional Status*. New York: Wiley-Liss.

COLE, T. J., BELLIZZI, M. C., FLEGAL, K. M., DIETZ, W. H. 2000. Establishing a standard definition for child overweight and obesity worldwide: international survey. *British medical journal*, 320(7244):1240-1243.

COLE, T. J., FLEGAL, K. M., NICHOLLS, D., JACKSON, A. A. 2007. Body mass index cut offs to define thinness in children and adolescents: international survey. *British medical journal*, 335(7612):194.

DANIELS, S. R, KHOURY, P. R., MORRISON, J. A. 1997. The utility of body mass index as a measure of body fatness in children and adolescents: differences by race and gender. *Pediatrics*, 99(6):804-807.

DEMERATH, E. W., GUO, S. S., CHUMLEA, W. C., TOWNE, B., ROCHE, F., SIERVOGEL, R. M. 2002. Comparison of percent body fat estimates using air displacement plethysmography and hydrodensitometry in adults and children. *International journal of obesity and related metabolic disorders: journal of the International Association for the Study of Obesity*, 26(3):389-97.

DEURENBERG, P., YAP, M., VAN STAVEREN, W. A. 1998. Body mass index and percent body fat: a meta analysis among different ethnic groups. *International Journal of Obesity*, 22(12):1164-1171.

DE WILDE, J. A., VAN DOMMELEN, P., MIDDELKOOP, B. J., VERKERK, P. H. 2009. Trends in overweight and obesity prevalence in Dutch, Turkish, Moroccan and Surinamese South Asian children in the Netherlands. *Archives of Disease in Childhood*, 94(10):795-800.

DIETZ, W. H., ROBINSON, T. N. 1998. Use of the body mass index (BMI) as a measure of overweight in children and adolescents. *The Journal of pediatrics*, 132(2):191-193.

DIEU, H. T., DIBLEY, M. J., SIBBRITT, D. W., HANH, T. T. 2009. Trends in overweight and obesity in pre-school children in urban areas of Ho Chi Minh City, Vietnam, from 2002 to 2005. *Public health nutrition*, 12(5):702-709.

DRINKWATER, D. T., ROSS, W. D. 1980. *Kinanthropometry II*. Baltimore: University Park Press.

DUCHER, G., BASS, S. L., NAUGHTON, G. A., ESER, P., TELFORD, R. D., DALY, R. M. 2009. Overweight children have a greater proportion of fat mass relative to muscle mass in the upper limbs than the lower limbs: implications for bone strength at the distal forearm. *American Journal of Clinical Nutrition*, 90(4):1104-1111.

DURNIN, J. V., WOMERSLEY, J. 1974. Body fat assessed from total body density and its estimation from skinfold thickness: measurements on 481 men and women aged from 16 to 72 years. *British Journal of Nutrition*, 32(1):77-97.

EISENMANN, J. C., HEELAN, K. A., WELK, G. J. 2004. Assessing body composition among 3- to 8-year-old children: anthropometry, BIA, and DXA. *Obesity research*, 12(10):1633–1640.

ELLIS, K. J., ABRAMS, S. A., WONG, W. W. 1999. Monitoring childhood obesity: assessment of the weight/height² index. *American Journal of Epidemiology*, 150(9):939–946.

ELLIS, K. J., SHYPAILO, R. J., ABRAMS, S. A., WONG, W. W. 2000. The reference child and adolescent models of body composition. A contemporary comparison. *Annals of the New York Academy of Sciences*, 904:374–382.

ERIKSSON, J., FORSÉN, T., TUOMILEHTO, J., OSMOND, C., BARKER, D. 2001. Size at birth, childhood growth and obesity in adult life. *International journal of obesity and related metabolic disorders: journal of the International Association for the Study of Obesity*, 25(5):735–740.

FARR, J. N., CHEN, Z., LISSE, J. R., LOHMAN, T. G., GOING, S. B. 2010. Relationship of total body fat mass to weight-bearing bone volumetric density, geometry, and strength in young girls. *Bone*, 46(4):977–984.

FIELDS, D., GORAN, M. I. 2000. Body composition techniques and the four-compartment model in children. *Journal of applied physiology*, 89(2):613–620.

FORS, H., GELANDER, L., BJARNASON, R., ALBERTSSON-WIKLAND, K., BOSAEUS, I. 2002. Body composition, as assessed by bioelectrical impedance spectroscopy and dual-energy X-ray absorptiometry, in a healthy paediatric population. *Acta paediatrica*, 91(7):755–760.

FOX, K. R., PETERS, D. M., SHARPE, P., BELL, M. 2000. Assessment of abdominal fat development in young adolescents using magnetic resonance imaging. *International journal of obesity and related metabolic disorders: journal of the International Association for the Study of Obesity*, 24(12):1653–1659.

FREEDMAN, D. S., WANG, J., MAYNARD, L. M., THORNTON, J. C., MEI, Z., PIERSON, R. N., DIETZ, W. H., HORLICK, M. 2005. Relation of BMI to fat and fat-free mass among children and adolescents. *International journal of obesity*, 29(1):1–8.

FREEDMAN, D. S., SHERRY, B. 2009. The validity of BMI as an indicator of body fatness and risk among children. *Pediatrics*, 124 Suppl. 1:S23–S34.

GARN, S. M., LEONARD, W. R., HAWTHORNE, V. M. 1986. Three limitations of the body mass index. *The American journal of clinical nutrition*, 44(6):996–997.

GARROW, J. S., WEBSTER, J. 1985. Quetelet's index (W/H²) as a measure of fatness. *International journal of obesity*, 9(2):147–153.

GOMES, T. N., NEVILL, A., KATZMARZYK, P. T., PEREIRA, S., DOS SANTOS, M. M., BURANARUGSA, R., DOS SANTOS, F. K., SOUZA, M., CHAVES, R., MAIA, J. 2018. Identifying the best body-weight-status index associated with metabolic risk in youth. *Scandinavian journal of medicine & science in sports*, 28(11):2375–2383.

GUO, S. S., HUANG, C., MAYNARD, L. M., DEMERATH, E., TOWNE, B., CHUMLEA, W. C. 2000. Body mass index during childhood, adolescence and young adulthood in relation to adult overweight and adiposity: the Fels Longitudinal Study. *International journal of obesity and related metabolic disorders: journal of the International Association for the Study of Obesity*, 24(12):1628–1635.

HAN, J. C., LAWLOR, D. A., KIMM, S. Y. S. 2010. Childhood obesity. *Lancet*, 375(9727):1737–1748.

HATTORI, K. 1991. Body composition and lean body mass index for Japanese college students. *Journal of the anthropological society of Nippon*, 99(2):141–148.

HATTORI, K., TATSUMI, N., TANAKA, S. 1997. Assessment of body composition by using a new chart method. *American Journal of Human Biology*, 9(5):573–578.

HATTORI, K., TAHARA, Y., MOJI, K., AOYAGI, K., FURUSAWA, T. 2004. Chart analysis of body composition change among pre- and postadolescent Japanese subjects assessed by underwater weighing method. *International journal of obesity and related metabolic disorders: journal of the International Association for the Study of Obesity*, 28(4):520–524.

HAUSPIE, R., CAMERON, N., MOLINARI, L. 2004. *Methods in human growth research*. Cambridge: Cambridge University Press.

HEWITT, M. J., GOING, S. B., WILLIAMS, D. P., LOHMAN, T. G. 1993. Hydration of the fat-free body mass in children and adults: implications for body composition assessment. *American journal of physiology*, 265(1 Pt 1):E88-E95.

HORLICK, M., 2001. Body mass index in childhood--measuring a moving target. *Journal of Clinical Endocrinology and Metabolism*, 86(9):4059–4060.

JANOUCHEK, M. 2008. Bioelektrická impedanční analýza. *Lékař a technika*, 4(38):57-60.

KATCH, F. I. 1984. The body composition profile. Techniques of measurement and applications. *Clinics in sports medicine*, 3(1):31-63.

KELLY, S., GANDHAM, S., NANAN, R. 2017. The use of tri-ponderal mass index and other indices in estimating visceral body fat percentages in adolescents. *Journal of the American Medical Association pediatrics*, 171(12):1228.

KHOR, G. L., CHEE, W. S., SHARIFF, Z. M., POH, B. K., ARUMUGAM, M., RAHMAN, J. A., THEOBALD, H. E. 2011. High prevalence of vitamin D insufficiency and its association with BMI-for-age among primary school children in Kuala Lumpur, Malaysia. *BioMed Central public health*, 11:95.

KROKE, A., HAHN, S., BUYKEN, A. E., LIESE, A. D. 2006. A comparative evaluation of two different approaches to estimating age at adiposity rebound. *International journal of obesity (London)*, 30(2):261–266.

KUNEŠOVÁ, M., VIGNEROVÁ, J., PAŘÍZKOVÁ, J., PROCHÁZKA, B., BRAUNEROVÁ, R., RIEDLOVÁ, J., ZAMRAZILOVÁ, H., HILL, M., BLÁHA, P., ŠTEFLOVÁ, A. 2011. Long-term changes in prevalence of overweight and obesity in Czech 7-year-old children: evaluation of different cut-off criteria of childhood obesity. *Obesity reviews: an official journal of the International Association for the Study of Obesity*, 12(7):483–491.

LAGUNOVA, Z., POROJNICU, A. C., LINDBERG, F. A., AKSNES, L., MOAN, J. 2011. Vitamin D status in Norwegian children and adolescents with excess body weight. *Pediatric Diabetes*, 12(2):120–126.

LEE, S. Y., GALLAGHER, D. 2008. Assessment methods in human body composition. *Current opinion in clinical nutrition and metabolic care*, 11(5):566-572.

LEWIS, M. K., BLAKE, G. M., FOGELMAN, I. 1994. Patient dose in dual X-ray absorptiometry. *Osteoporosis international: a journal established as result of cooperation between the European Foundation for Osteoporosis and the National Osteoporosis Foundation of the USA*, 4(1):11-15.

LHOTSKÁ, L., BLÁHA, P., VIGNEROVÁ, J., ROTH, Z., PROKOPEC, M. 1995. *5. celostátní antropologický výzkum dětí a mládeže 1991 (české země): antropometrické charakteristiky = 5th nation-wide anthropological survey of children and adolescents 1991 (Czech Republic)*. Praha: Státní zdravotní ústav.

LINARES, J., CORVALÁN, C., GALLEGUILLOS, B., KAIN, J., GONZÁLEZ, L., UAUY, R., GARMENDIA, M. L., MERICQ, V. 2016. The effects of pre-pregnancy BMI and maternal factors on the timing of adiposity rebound in offspring. *Obesity*, 24(6):1313-1319.

LOIRET, S., TOUVIER, M., DUBUSSON, C., DUFOUR, A., CALAMASSI-TRAN, G., LAFAY, L., VOLATIER, J. L., MAIRE, B. 2009. Trends in child overweight rates and energy intake in France from 1999 to 2007: Relationships with socioeconomic status. *Obesity*, 17(5):1092-1100.

LOBSTEIN, T., BAUR, L., UAUY, R., IASO International Obesity TaskForce. 2004. Obesity in children and young people: a crisis in public health. *Obesity reviews: an official journal of the International Association for the Study of Obesity*, 5 Suppl. 1:4-104.

LOHMAN, T. G. 1986. Applicability of body composition techniques and constants for children and youths. *Exercise and sport sciences reviews*, 14:325-357.

LOHMAN, T. G. 1992. *Advances in body composition assessment*. Champaign, IL: Human Kinetics.

LOHMAN, M., TALLROTH, K., KETTUNEN, J. A., MARTTINEN, M. T. 2009. Reproducibility of dual-energy x-ray absorptiometry total and regional body composition measurements using different scanning positions and definitions of regions. *Metabolism: Clinical and Experimental*, 58(11):1663-1668.

LOHMAN, T. G., HINGLE, M., GOING, S. B. 2013. Body composition in children. *Pediatric exercise science*, 25(4):573-590.

LUKASKI, H. C. 1987. Methods for the assesment of human composition: traditional and new. *American Journal of Clinical Nutrition*, 46:537- 556.

LUKASKI, H. C., BOLONCHUK, W. W., HALL, C. B., SIDERS, W. A. 1986. Validation of tetrapolar bioelectrical impedance method to assess human body composition. *Journal of Applied physiology*, 60(4):1327-1332.

MALINA, R. M., KATZMARZYK, P. T. 1999. Validity of the body mass index as an indicator of the risk and presence of overweight in adolescents. *The American Journal of Clinical Nutrition*, 70(1):131-136.

MARGOLIS-GIL, M., YACKOBOWITZ-GAVAN, M., PHILLIP, M., SHALITIN, S. 2018. Which predictors differentiate between obese children and adolescents with cardiometabolic complications and those with metabolically healthy obesity? *Pediatric diabetes*, 19(7):1147-1155.

MARTIN, R., SALLER, K. 1959. *Lehrbuch der Anthropologie in systematischer Darstellung*. Stuttgart: G. Fischer Verlag.

MARTINS, E. B., CARVALHO, M. S. 2006. Birth weight and overweight in childhood: a systematic review. *Cad Saude Publica*, 22(11):2281-2300.

MATIEGKA, J. 1921. The testing of physical efficiency. *American Journal of Physical Anthropology*, 4(3):223-230.

MATIEGKA, J. 1927. *Somatologie školní mládeže: vývin a vzrůst dítěte a dospívající mládeže školní po stránce tělesné*. Praha: Česká akademie věd a umění.

MEI, Z., GRUMMER-STRAWN, L. M., PIETROBELL, A., GOULDING, A., GORAN, M. I., DIETZ, W. H. 2002. Validity of body mass index compared with other body-composition screening indexes for the assessment of body fatness in children and adolescents. *The American Journal of Clinical Nutrition*, 75(6):978-985.

MEIGEN, C., KELLER, A., GAUSCHE, R., KROMEYER-HAUSCHILD, K., BLÜHER, S., KIESS, W., KELLER, E. 2008. Secular trends in body mass index in German children and adolescents: a cross-sectional data analysis via CrescNet between 1999 and 2006. *Metabolism: Clinical and Experimental*, 57(7):934-939.

NCD RISK FACTOR COLLABORATION. 2017. Worldwide trends in body-mass index , underweight , overweight , and obesity from 1975 to 2016: a pooled analysis of 2416 population-based measurement studies in 128·9 million children, adolescents, and adults. *Lancet*, 390(10113):2627-2642.

NETOLICKÁ, V. 2008. *Testy normality*. Přírodovědecká fakulta Univerzity Palackého v Olomouci: Katedra matematické analýzy a aplikací matematiky.

NICHOLS, M. S., DE SILVA-SANIGORSKI, A., CLEARY, J. E., GOLDFELD, S. R., COLAHAN, A., SWINBURN, B. A. 2011. Decreasing trends in overweight and obesity among an Australian population of preschool children. *International Journal of Obesity (London)*, 35(7):916-924.

NICHOLSON, J. C., MCDUFFIE, J. R., BONAT, S. H., RUSSELL, D. L., BOYCE, K. A., MCCANN, S., MICHAEL, M., SEBRING, N. G., REYNOLDS, J. C., YANOVSKI, J. A. 2001. Estimation of body fatness by air displacement plethysmography in African American and white children. *Pediatric research*, 50(4):467-473.

OGDEN, C. L., CARROLL, M. D., FLEGAL, K. M. 2008. High body mass index for age among US children and adolescents, 2003-2006. *Journal of the American Medical Association*, 299(20):2401-2405.

OGDEN, C. L., CARROLL, M. D., CURTIN, L. R., LAMB, M. M., FLEGAL, K. M. 2010. Prevalence of high body mass index in US children and adolescents, 2007-2008. *Journal of the American Medical Association*, 303(3):242-249.

OGDEN, C. L., FRYAR, C. D., CARROLL, M. D., FLEGAL, K. M. 2004. Mean body weight, height, and body mass index, United States 1960-2002. *Advance Data*, 347:1-17.

OLDS, T. S. 2009. One million skinfolds: secular trends in the fatness of young people 1951-2004. *European journal of clinical nutrition*, 63(8):934-946.

OLDS, T. S., TOMKINSON, G. R., FERRAR, K. E., MAHER, C. A. 2010. Trends in the prevalence of childhood overweight and obesity in Australia between 1985 and 2008. *International journal of obesity*, 34(1):57-66.

ONG K. K., AHMED, M. L., EMMETT, P. M., PREECE, M. A., DUNGER, D. B. 2000. Association between postnatal catch-up growth and obesity in childhood: prospective cohort study. *British medical journal*, 320(7240):967-971.

PAŘÍZKOVÁ, J. 1962. *Rozvoj aktivní hmoty a tuku u dětí a mládeže. Thomaerova sbírka 413.* Praha: SZN.

PAŘÍZKOVÁ, J. 1998. Interaction between physical activity and exercise in early life and their impact on later development. *Nutrition research reviews*, 11(1):71-90.

PAŘÍZKOVÁ, J., HILLS, A. P. 2005. *Childhood obesity: prevention and treatment.* Boca Raton: CRC Press.

PAŘÍZKOVÁ, J., LISÁ, L., BLÁHA, P., FRAŇKOVÁ, S., HAINEROVÁ, I., HLAVATÁ, K., KOLÁŘ, P., KUČERA, M., KUNEŠOVÁ, M., RADVANSKÝ, J., VIGNEROVÁ, J. 2007. *Obezita v dětství a dospívání: terapie a prevence.* Praha: Galén.

PAŘÍZKOVÁ, J. 2010. *Nutrition, physical activity, and health in early life.* Boca Raton: CRC Press.

PAŘÍZKOVÁ, J. 2012. The role of motor and nutritional individuality in childhood obesity. *Collegium antropologicum*, 36(1):23-29.

PAŘÍZKOVÁ, J., DVOŘÁKOVÁ, H., BABOULKOVÁ, V. 2012a. Development of morphological and motor characteristics during preschool age. *Biometrie Humaine et Anthropologie*, 29(1):1-6.

PAŘÍZKOVÁ, J., SEDLAK, P., DVOŘÁKOVÁ, H., LISÁ, L., BLÁHA, P. 2012b. Secular trends of adiposity and motor abilities in preschool children. *Journal of Obesity and Weight Loss Therapy*, 2:153.

PEARSON, S., HANSEN, B., SØRENSEN, T. I., BAKER, J. L. 2010. Overweight and obesity trends in Copenhagen schoolchildren from 2002 to 2007. *Acta Paediatrica*, 99(11):1675-1678.

PETERSON, C. M., SU, H., THOMAS, D. M., HEO, M., GOLNABI, A. H., PIETROBELL, A., HEYMSFIELD, S. B. 2017. Tri-ponderal mass index vs body mass index in estimating body fat during adolescence. *Journal of the American Medical Association pediatrics*, 171(7):629-636.

PIETROBELL, A., FAITH, M. S., ALLISON, D. B., GALLAGHER, D., CHIUMELLO, G., HEYMSFIELD, S. B. 1998. Body mass index as a measure of adiposity among children and adolescents: a validation study. *The Journal of pediatrics*, 132(2):204-210.

POPKIN, B. M., GORDON-LARSEN, P. 2004. The nutrition transition: worldwide obesity dynamics and their determinants. *International journal of obesity and related metabolic disorders: journal of the International Association for the Study of Obesity*, 28 Suppl 3:S2-S9.

PRENTICE, A. M. 1998. Body mass index standards for children are useful for clinicians but not yet for epidemiologists. *British medical journal*, 317(7170):1401-1402.

PROKOPEC, M. 1994. Forty years of monitoring child growth in the Czech Republic: methodologies, outcomes and comparisons. In: *Auxology 1994: Children and youth at the end of the 20th century: 7th International Congress of Auxology: Szombathely, Hungary.* Humanbiologia budapestinensis, 25. Budapest: ITC Plantin.

PROKOPEC, M., BELLISLE, F. 1993. Adiposity in Czech children followed from one month of age to adulthood: analysis of individual BMI patterns. *Annals of human biology*, 20(6):517-525.

RAMÍREZ-VÉLEZ, R., CORREA-BAUTISTA, J. E., CARRILLO, H. A., GONZÁLEZ-JIMÉNEZ, E., SCHMIDT-RIOVALLE, J., CORREA-RODRÍGUEZ, M., GARCÍA-HERMOSO, A., GONZÁLEZ-RUÍZ, K. 2018. Tri-ponderal mass index vs. fat mass/height³ as a screening tool for metabolic syndrome prediction in colombian children and young people. *Nutrients*, 10(4):412.

RIEGEROVÁ, J., PŘIDALOVÁ, M., ULBRICHOVÁ, M. 2006. *Aplikace fyzické antropologie v tělesné výchově a sportu: příručka funkční antropologie*. Olomouc: Hanex.

RIETSCH, K., ECCARD, J. A., SCHEFFLER, C. 2013a. Decreased external skeletal robustness due to reduced physical activity? *American Journal of Human Biology*, 25(3):404-410.

RIETSCH, K., GODINA, E., SCHEFFLER, C. 2013b. Decreased external skeletal robustness in schoolchildren: a global trend? Ten year comparison of russian and german data. *Public library of science one*, 8(7):1-7.

ROHRER, F. 1908. Eine neue Formel zur Bestimmung der Körperfülle. *Korrespondenze-Blatt der Deutschen Gesellschaft für Anthropologie, Ethnologie und Urgeschichte*, 39:5-7.

ROHRER, F. 1921. Der Index der Körperfülle als Mass des Ernährungszustandes. *Münchener medizinische Wochenschrift*, 68:580-582.

ROLLAND-CACHERA, M. F., DEHEEGER, M., BELLISLE, F., SEMPE, M., GUILLOUD-BATAILLE, M., PATOIS, E. 1984. Adiposity rebound in children: a simple indicator for predicting obesity. *The American Journal of Clinical Nutrition*, 39(1):129-135.

ROLLAND-CACHERA, M. F., DEHEEGER, M., GUILLOUD-BATAILLE, M., AVONS, P., PATOIS, E., SEMPÉ, M. 1987. Tracking the development of adiposity from one month of age to adulthood. *Annals of Human Biology*, 14(3):219-229.

ROMON, M., LOMMEZ, A., TAFFLET, M., BASDEVANT, A., OPPERT, J. M., BRESSON, J. L., DUCIMETIÈRE, P., CHARLES, M. A., BORYS, J. M. 2009. Downward trends in the prevalence of childhood overweight in the setting of 12-year school- and community-based programmes. *Public Health Nutrition*, 12(10):1735-1742.

ROSARIO, A. S., SCHIENKIEWITZ, A., NEUHAUSER, H. 2011. German height references for children aged 0 to under 18 years compared to WHO and CDC growth charts. *Annals of Human Biology*, 38(2):121-130.

SAARI, A., SANKILAMPI, U., HANNILA, M. L., KIVINIEMI, V., KESSELI, K., DUNKEL, L. 2011. New Finnish growth references for children and adolescents aged 0 to 20 years: Length/height-for-age, weight-for-length/height, and body mass index-for-age. *Annals of Medicine*, 43(3):235-248.

SALCEDO, V., GUTIÉRREZ-FISAC, J. L., GUALLAR-CASTILLÓN, P., RODRÍGUEZ-ARTALEJO, F. 2010. Trends in overweight and misperceived overweight in Spain from 1987 to 2007. *International Journal of Obesity*, 34(12):1759-1765.

SANT'ANNA, M. D. S. L., PRIORE, S. E., FRANCESCHINI S. D. C. C. 2009. Methods of body composition evaluation in children. *Revista paulista de pediatria: orgão oficial da Sociedade de Pediatria de São Paulo*, 27(3):315-321.

SARDINHA, L. B., LOHMAN, T. G., TEIXEIRA, P. J., GUEDES, D. P., GOING, S. B. 1998. Comparison of air displacement plethysmography with dual-energy X-ray absorptiometry and 3 field methods

for estimating body composition in middle-aged men. *The American journal of clinical nutrition*, 68(4):786-793.

SCOTTISH GOVERNMENT. 2010. *Preventing overweight and obesity in Scotland: a route map towards healthy weight*. Edinburgh: Scottish Government.

SEDLAK, P., PAŘÍZKOVÁ, J., DANIŠ, R., DVOŘÁKOVÁ, H., VIGNEROVÁ, J. 2015. Secular changes of adiposity and motor development in czech preschool children: lifestyle changes in fifty-five year retrospective study. *BioMed research international*, 2015:823841.

SHAH, R. V., MURTHY, V. L., ABBASI, S. A., BLANKSTEIN, R., KWONG, R. Y., GOLDFINE, A. B., JEROSCH-HEROLD, M., LIMA, J. A., DING, J., ALLISON, M. A. 2014. Visceral adiposity and the risk of metabolic syndrome across body mass index: the MESA Study. *Journal of the American College of Cardiology cardiovascular imaging*, 7(12):1221-1235.

SHYPAILO, R. J., BUTTE, N. F., ELLIS, K. J. 2008. DXA: can it be used as a criterion reference for body fat measurements in children? *Obesity (Silver Spring, Md.)*, 16(2):457-462.

SCHEFFLER, C. 2011. The change of skeletal robustness of 6-12 years old children in Brandenburg (Germany)--comparison of body composition 1999-2009. *Anthropologischer Anzeiger; Bericht über die biologisch-anthropologische Literatur*, 68(2):153-165.

SCHOELLER, D. 1996. Hydrometry. In: ROCHE, A. F., HEYMSFIELD, S. B., LOHMAN, T. G. *Human Body Composition*. Champaign, IL: Human Kinetics.

SCHÖNBECK, Y., TALMA, H., DOMMELEN, P., BAKKER, B., BUITENDIJK, S., HIRASING, R. A., BUUREN, S. 2013. The world's tallest nation has stopped growing taller: the height of Dutch children from 1955 to 2009. *Pediatric research*, 73(3):371-377.

SIERVOGEL, R. M., ROCHE, A. F., GUO, S., MUKHERJE, D., CHUMLEA, W. C. 1991. Patterns of change in weight/stature² from 2 to 18 years: findings from long-term serial data for children in the Fels Longitudinal Growth Study. *International journal of obesity and related metabolic disorders: journal of the International Association for the Study of Obesity*, 15(7):479-485.

SJÖSTROM, L. 1993. Body composition studies with CT and with CT-calibrated anthropometric techniques. In: KRÁL, J., VANITALLIE, T. B. *Recent development in body composition analysis: methods and applications*. London: Smith-Gordon Nishimura.

SLAUGHTER, M. H., LOHMAN, T. G., BOILEAU, R. A., HORSWILL, C. A., STILLMAN, R. J., VAN LOAN, M. D., BEMBEN, D. A. 1988. Skinfold equations for estimation of body fatness in children and youth. *Human Biology*, 60(5):709-723.

SLINDE, F., ROSSANDER-HULTHÉN, L. 2001. Bioelectrical impedance: effect of 3 identical meals on diurnal impedance variation and calculation of body composition. *The American journal of clinical nutrition*, 74(4):474-478.

SLOAN, A. W., WEIR, J. B. 1970. Nomograms for prediction of body density and total body fat from skinfold measurements. *Journal of applied physiology*, 28(2):221-222.

SMITH, S. M., CRAIG, L. C., RAJA, A. E., MCNEILL, G., TURNER, S. W., 2013. Growing up before growing out: secular trends in height, weight and obesity in 5--6-year-old children born between 1970 and 2006. *Archives of Disease in Childhood*, 98(4):269-273.

SOPHER, A., SHEN, W., PIETROBELL, A. 2005. Pediatric body composition methods. In: HEYMSFIELD, S. B., LOHMAN, T. G., WANG, Z., GOING, S.B. *Human Body Composition*. Champaign, IL: Human Kinetics.

STAMATAKIS, E., ZANINOTTO, P., FALASCHETTI, E., MINDELL, J., HEAD, J. 2010a. Time trends in childhood and adolescent obesity in England from 1995 to 2007 and projections of prevalence to 2015. *Journal of Epidemiology & Community Health*, 64(2):167–174.

STAMATAKIS, E., WARDLE, J., COLE, T. J. 2010b. Childhood obesity and overweight prevalence trends in England: evidence for growing socioeconomic disparities. *International Journal of Obesity*, 34(1):41–47.

ŠMAHEL, Z. 2001. *Principy, teorie a metody auxologie*. Praha: Karolinum.

TALMA, H., CHINAPAW, M. J., BAKKER, B., HIRASING, R. A., TERWEE, C. B., ALTBURG, T. M. 2013. Bioelectrical impedance analysis to estimate body composition in children and adolescents: a systematic review and evidence appraisal of validity, responsiveness, reliability and measurement error. *Obesity reviews: an official journal of the International Association for the Study of Obesity*, 14(11):895–905.

TANNER, J. M. 1992. Growth as a measure of the nutritional and hygienic status of a population. *Hormone research*, 38 Suppl. 1:106–115.

THORLAND, W. G., JOHNSON, G. O., THARP, G. D., HOUSH, T. J., CISAR, C. J. 1984. Estimation of body density in adolescent athletes. *Human biology*, 56(3):439–448.

TREUTH, M. S., BUTTE, N. F., WONG, W. W., ELLIS, K. J. 2001. Body composition in prepubertal girls: comparison of six methods. *International journal of obesity and related metabolic disorders: journal of the International Association for the Study of Obesity*, 25(9):1352–1359.

VAN ITALLIE, T. B., YANG, M. U., HEYMSFIELD, S. B., FUNK, R. C., BOILEAU, R. A. 1990. Height-normalized indices of the body's fat-free mass and fat mass: potentially useful indicators of nutritional status. *The American journal of clinical nutrition*, 52(6):953–959.

VIGNEROVÁ, J., BRABEC, M., BLÁHA, P. 2006. Two centuries of growth among Czech children and youth. *Economics And Human Biology*, 4(2):237–252.

VIGNEROVÁ, J., HUMENÍKOVÁ, L., BRABEC, M., RIEDLOVÁ, J., BLÁHA, P. 2007. Long-term changes in body weight, BMI, and adiposity rebound among children and adolescents in the Czech republic. *Economics and Human Biology*, 5(3):409–425.

VIGNEROVÁ, J., RIEDLOVÁ, J., BLÁHA, P., KOBZOVÁ, J., KREJČOVSKÝ, L., BRABEC, M., HRUŠKOVÁ, M. 2006. 6. Celostátní antropologický výzkum dětí a mládeže 2001. *Souhrnné výsledky*. Praha: PřF UK, SZÚ.

WANG, Y. 2001. Cross-national comparison of childhood obesity: the epidemic and the relationship between obesity and socioeconomic status. *International journal of epidemiology*, 30(5):1129–1136.

WANG, Y., LOBSTEIN, T. 2006. Worldwide trends in childhood overweight and obesity. *International Journal of Pediatric Obesity*, 1(1):11–25.

WELLS, J. C., FULLER, N. J., DEWIT, O., FEWTRELL, M. S., ELIA, M., COLE, T. J. 1999. Four-component model of body composition in children: density and hydration of fat-free mass and comparison with simpler models. *The American Journal of Clinical Nutrition*, 69(5):904-912.

WELLS, J. C. 2001. A critique of the expression of paediatric body composition data. *Archives of disease in childhood*, 85(1):67-72.

WELLS, J. C., FULLER, N. J. 2001. Precision of measurement and body size in whole-body air-displacement plethysmography. *International Journal of Obesity and Related Metabolic Disorders*, 25(8):1161-1167.

WHITAKER, R. C., PEPE, M. S., WRIGHT, J. A., SEIDEL, K. D., DIETZ, W. H. 1998. Early adiposity rebound and the risk of adult obesity. *Pediatrics*, 101(3):E5.

WICKRAMASINGHE, V. P., CLEGHORN, G. J., EDMISTON, K. A., MURPHY, A. J., ABBOTT, R. A., DAVIES, P. S. 2005. Validity of BMI as a measure of obesity in Australian white Caucasian and Australian Sri Lankan children. *Annals of human biology*, 32(1):60-71.

WILLIAMS, S., DAVIE, G., LAM, F. 1999. Predicting BMI in young adults from childhood data using two approaches to modelling adiposity rebound. *International journal of obesity and related metabolic disorders: journal of the International Association for the Study of Obesity*, 23(4):348-354.

YOSHINAGA, M., ICHIKI, T., TANAKA, Y., HAZEKI, D., HORIGOME, H., TAKAHASHI, H., KASHIMA, K. 2010. Prevalence of childhood obesity from 1978 to 2007 in Japan. *Pediatrics International*, 52(2):213-217.