

# Bibliographie

## Chapitre 1

- ASTRAND P. O., RODAHL K. « Dimensions de l'organisme et travail musculaire ». In: ASTRAND P. O., RODAHL K., *Précis de physiologie de l'exercice musculaire*, Paris, Masson, 1986, 276-291.
- BROOK C. G., « Determination of body composition of children from skinfold measurements », *Arch Dis Child*, 1971, 46(246): 182-184.
- COLLING-SALTIN A. S. « Skeletal muscle development in the human foetus and during childhood ». In: BERG K., ERIKSSON B. O., *Children and Exercise*, Baltimore, University Park Press, 1980, 193-207.
- DE FRANÇA N., *Performance anaérobie de la jeune Brésilienne comparée à celle de la jeune française*, Université Blaise Pascal, Clermont-Ferrand, Thèse de doctorat, 1999.
- DEHEEGER M., ROLLAND-CACHERA M. F., « [Longitudinal study of anthropometric measurements in Parisian children aged ten months to 18 years] », *Arch Pediatr*, 2004, 11(9): 1139-1144.
- DORÉ E., *Évolution de la puissance maximale anaérobie dans une population non sélectionnée de filles et de garçons âgés de 7 à 21 ans*, Université Blaise Pascal, Clermont-Ferrand, Thèse de doctorat, 1999.
- DURNIN J. V., RAHAMAN M. M., « The assessment of the amount of fat in the human body from measurements of skinfold thickness », *Br J Nutr*, 1967, 21(3): 681-689.
- GREULICH W. W., PYLE S. I., *Radiographic atlas of skeletal development of the hand and wrist*, Stanford University Press, 1959.
- HEYTERS C., MARIQUE T., *Le Baromètre de la condition physique des enfants de 8 à 12 ans*, ADEPS, 2011.
- MALINA R. M., BOUCHARD C., *Growth, maturation and physical activity*, Human Kinetics, 1991.
- MIRWALD R. L., BAXTER-JONES A. D., BAILEY D. A., BEUNEN G. P., « An assessment of maturity from anthropometric measurements », *Med Sci Sports Exerc*, 2002, 34(4): 689-694.
- PINEAU J. C., FERRY A., DUVALLET A., « Influence de la puberté sur les résultats aux tests d'aptitude physique chez les jeunes sportifs des deux sexes », *Cinétiologie*, 1988, 120: 209-215.

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- REBATO E., ROSIQUE J. « Estimation de la forme corporelle : le somatotype ». In: SUSANNE C., REBATO E., CHIRELLI B., *Anthropologie biologique. Évolution et biologie humaine*, Bruxelles, De Boeck Université, 2003, 103-108.
- ROLLAND-CACHERA M. F., DEHEEGER M., MAILLOT M., BELLISLE F., « Early adiposity rebound: causes and consequences for obesity in children and adults », *Int J Obes (Lond)*, 2006, 30 Suppl 4: S11-17.
- SEMPÉ M., PEDRON G., ROY-PERNOT M. P., *Auxologie - Méthodes et séquences*, Theraplix, 1979.
- SLAUGHTER M. H., LOHMAN T. G., BOILEAU R. A., HORSWILL C. A., STILLMAN R. J., VAN LOAN M. D., BEMBEN D. A., « Skinfold equations for estimation of body fatness in children and youth », *Hum Biol*, 1988, 60(5): 709-723.
- TANNER J. M., *Growth and adolescence*, Blackwell Scientific Publishing, 1962.
- TANNER J. M., WHITEHOUSE R. H., MARSCHALL W. A., HEALY M. J. R., GOLDSTEIN H., *Assessment of skeletal maturity and prediction of adult height (TW 2 method)*, Academic Press, 1975.
- VERCAUTEREN M. « Évolution séculaire au 20ème siècle ». In: SUSANNE C., REBATO E., CHIARELLI B., *Anthropologie biologique. Évolution et biologie humaine*, Bruxelles, De Boeck Université, 2003, 539-548.

### **Chapitre 2-A**

- BAILEY D. A., MCKAY H. A., MIRWALD R. L., CROCKER P. R., FAULKNER R. A., « A six-year longitudinal study of the relationship of physical activity to bone mineral accrual in growing children: the university of Saskatchewan bone mineral accrual study », *J Bone Miner Res*, 1999, 14(10): 1672-1679.
- BASS S., DELMAS P. D., PEARCE G., HENDRICH E., TABENSKY A., SEEMAN E., « The differing tempo of growth in bone size, mass, and density in girls is region-specific », *J Clin Invest*, 1999, 104(6): 795-804.
- BASS S., PEARCE G., BRADNEY M., HENDRICH E., DELMAS P. D., HARDING A., SEEMAN E., « Exercise before puberty may confer residual benefits in bone density in adulthood: studies in active prepubertal and retired female gymnasts », *J Bone Miner Res*, 1998, 13(3): 500-507.
- BASS S. L., « The prepubertal years: a uniquely opportune stage of growth when the skeleton is most responsive to exercise? », *Sports Med*, 2000, 30(2): 73-78.
- BASS S. L., ESER P., DALY R., « The effect of exercise and nutrition on the mechanostat », *J Musculoskelet Neuronal Interact*, 2005, 5(3): 239-254.
- BASS S. L., SAXON L., DALY R. M., TURNER C. H., ROBLING A. G., SEEMAN E., STUCKEY S., « The effect of mechanical loading on the size and shape of bone in pre-, peri-, and postpubertal girls: a study in tennis players », *J Bone Miner Res*, 2002, 17(12): 2274-2280.
- BLIMKIE C. J. R., HÖGLER W., « Muscle-bone mutualism, mechanical loading and

the mechanostat theory: a pediatric perspective », *Revista Portuguesa de Ciencias do Desporto*, 2003, 3(2): 22-25.

- BLIMKIE C. J. R., RICE S., WEBBER C. E., MARTIN J., LEVY D., GORDON C. L., « Effects of resistance training on bone mineral content and density in adolescent females », *Can J Physiol Pharmacol*, 1996, 74: 1025-1033.
- BONJOUR J. P., CARRIE A. L., FERRARI S., CLAVIEN H., SLOSMAN D., THEINTZ G., RIZZOLI R., « Calcium-enriched foods and bone mass growth in prepubertal girls: a randomized, double-blind, placebo-controlled trial », *J Clin Invest*, 1997, 99(6): 1287-1294.
- BOOT A. M., DE RIDDER M. A., POLS H. A., KRENNING E. P., DE MUINCK KEIZER-SCHRAMA S. M., « Bone mineral density in children and adolescents: relation to puberty, calcium intake, and physical activity », *J Clin Endocrinol Metab*, 1997, 82(1): 57-62.
- BURR D. B., « Muscle strength, bone mass, and age-related bone loss », *J Bone Miner Res*, 1997, 12(10): 1547-1553.
- COURTEIX D., JAFFRÉ C., LESPESSAILLES E., BENHAMOU C. L., « Cumulative effects of calcium supplementation and physical activity on bone accretion in premenarchal children: a double-blind randomised placebo-controlled trial », *Int J Sports Med*, 2005, 26: 332-338.
- COURTEIX D., LESPESSAILLES E., OBERT P., BENHAMOU C. L., « Skull bone mass deficit in prepubertal highly-trained gymnast girls », *Int J Sports Med*, 1999, 20(5): 328-333.
- COURTEIX D., LESPESSAILLES E., PERES S. L., OBERT P., GERMAIN P., BENHAMOU C. L., « Effect of physical training on bone mineral density in prepubertal girls: a comparative study between impact-loading and non-impact-loading sports », *Osteoporos Int*, 1998, 8(2): 152-158.
- DAWSON-HUGHES B., HARRIS S. S., FINNERAN S., « Calcium absorption on high and low Ca intakes in relation to vitamin D receptor genotype », *J Clin Endocrinol Metab*, 1995, 80(3657-3661).
- EHRLICH P. J., LANYON L. E., « Mechanical strain and bone cell function: a review », *Osteoporos Int*, 2002, 13: 688-700.
- FERRY B., LESPESSAILLES E., ROCHCONGAR P., DUCLOS M., COURTEIX D., « Bone health during late adolescence: Effects of an 8-month training program on bone geometry in female athletes », *Joint Bone Spine*, 2013, 80(1): 57-63.
- FORWOOD M. R., TURNER C. H., « Skeletal adaptations to mechanical usage: results from tibial loading studies in rats », *Bone*, 1995, 17(4): 197S-205S.
- FROST H. M., « Bone mass and the mechanostat: a proposal », *Anat Rec*, 1987a, 219: 1-9.
- FROST H. M., « The mechanostat: a proposed pathogenic mechanism of osteoporoses and the bone mass effects of mechanical and nonmechanical agents », *Bone*

## L'enfant et l'activité physique

Miner, 1987b, 2: 73-85.

- GREENE D. A., NAUGHTON G. A., BRIODY J. N., KEMP A., WOODHEAD H., CORRIGAN L., « Bone strength index in adolescent girls: does physical activity make a difference », *Br J Sports Med*, 2005, 39: 622-627.
- GUÉGUEN L. « Calcium ». In: MARTIN A., *Apports nutritionnels conseillés pour la population française*, Paris, Éditions Tec et Doc, 2001, 131-140.
- HAAPASALO H., KANNUS P., SIEVANEN H., PASANEN M., UUSI-RASI K., HEINONEN A., OJA P., VUORI I., « Effect of long-term unilateral activity on bone mineral density of female junior tennis players », *J Bone Miner Res*, 1998, 13(2): 310-319.
- HEANEY R. P., ABRAMS S., DAWSON-HUGHES B., LOOKER A. C., MARCUS R., MATKOVIC V., WEAVER C., « Peak bone mass », *Osteoporos Int*, 2000, 11(985-1009).
- HEINONEN A., SIEVÄNEN H., KANNUS P., OJA P., PASANEN M., VUORI I., « High-impact exercise and bones of growing girls: a 9-month controlled trial », *Osteoporos Int*, 2000, 11(12): 1010-1017.
- HUONKER M., SCHMIDT A., SCHMIDT-TRUCKSÄSS, GRATHWOHL D., KEUL J., « Size and blood flow of central and peripheral arteries in highly trained able-bodied and disabled athletes », *J Appl Physiol*, 2003, 95: 685-691.
- KANNUS P., HAAPASALO H., SANKELO M., SIEVÄNEN H., PASANEN M., HEINONEN A., OJA P., VUORI I., « Effect of starting age of physical activity on bone mass in the dominant arm of tennis and squash players », *Ann Intern Med*, 1995, 123(1): 27-31.
- KARLSSON M. K., « The skeleton in a long-term perspective - Are exercise induced benefits eroded by time? », *J Musculoskelet Neuronal Interact*, 2003, 3(4): 348-351.
- KELLY P. J., EISMAN J. A., SAMBROOK P. N., « Interaction of genetic and environmental influences on peak bone density », *Osteoporos Int*, 1990, 1(1): 56-60.
- KEMPER H. C., BAKKER I., TWISK J. W., VAN MECHELEN W., « Validation of a physical activity questionnaire to measure the effect of mechanical strain on bone mass », *Bone*, 2002, 30(5): 799-804.
- KHAN K., MCKAY H. A., HAAPASALO H., BENNELL K. L., FORWOOD M. R., KANNUS P., WARK J. D., « Does childhood and adolescence provide a unique opportunity to strengthen the skeleton ? », *J Sci Med Sport*, 2000, 3: 150-164.
- KONTULAINEN S., KANNUS P., PASANEN M., SIEVÄNEN H., HEINONEN A., OJA P., VUORI I., « Does previous participation in high-impact training result in residual bone gain in growing girls », *Int J Sports Med*, 2002, 23: 575-581.
- LAING E. M., WILSON A. R., MODLESKY C. M., O'CONNOR P. J., HALL D. B., LEWIS R. D., « Initial years of recreational artistic gymnastics training improves lumbar spine bone mineral accrual in 4- to 8-year-old females », *J Bone Miner Res*, 2005, 20(3): 509-519.
- MACDONALD H. M., KONTULAINEN S. A., MACKELVIE-O'BRIEN K. J., PETIT M. A., JANSEN P., KHAN K. M., MCKAY H. A., « Maturity- and sex-related changes in tibial bone geometry, strength and bone-muscle strength indices during growth:a

- 20-month pQCT study », *Bone*, 2005, 36: 1003-1011.
- MACKELVIE K. J., KHAN K. M., MCKAY H. A., « Is there a critical period for bone response to weight-bearing exercise in children and adolescents? a systematic review », *Br J Sports Med*, 2002, 36: 250-257.
  - MACKELVIE K. J., MCKAY H. A., KHAN K. M., CROCKER P. R. E., « A school-based exercise intervention augments bone mineral accrual in early pubertal girls », *J Pediatr*, 2001, 139(4): 501-508.
  - MARTIN A. D., BAILEY D. A., MCKAY H. A., WHITING S., « Bone mineral and calcium accretion during puberty », *Am J Clin Nutr*, 1997, 66: 611-615.
  - MATKOVIC V., « Editorial: skeletal development and bone turnover revisited », *J Clin Endocrinol Metab*, 1996, 81(6): 2013-2015.
  - MCKAY H. A., BAILEY D. A., MIRWALD R. L., DAVISON K. S., FAULKNER R. A., « Peak bone mineral accrual and age at menarche in adolescent girls: a 6- year longitudinal study », *J Pediatr*, 1998, 133(5): 682-687.
  - MODLESKY C. M., LEWIS R. D., « Does exercise during growth have a long-term effect on bone health? », *Exerc Sport Sci Rev*, 2002, 30(4): 171-176.
  - PARFITT A. M., « The two faces of growth: benefits and risks to bone integrity », *Osteoporos Int*, 1994, 4(6): 382-398.
  - PARFITT A. M., « Genetic effects on bone mass and turnover-relevance to black/white differences », *J Am Coll Nutr*, 1997, 16: 325-333.
  - PARFITT A. M., TRAVERS S., RAUCH F., GLORIEUX F. H., « Structural and cellular changes during bone growth in healthy children », *Bone*, 2000, 27(4): 487-494.
  - PETIT M. A., MCKAY H. A., MACKELVIE K. J., HEINONEN A., KAHN K. M., BECK T. J., « A randomized school-based jumping intervention confers site and maturity-specific benefits on bone structural properties in girls: a hip structural analysis study », *J Bone Miner Res*, 2002, 17(3): 363-372.
  - RAUCH F., « Bone growth in length and width: the Yin and Yang of bone stability », *J Musculoskelet Neuronal Interact*, 2005, 5(3): 194-201.
  - RIGGS B. L., KHOSLA S., MELTON L. J., « Sex steroids and the construction and conservation of the adult skeleton », *Endocr. Rev.*, 2002, 23(3): 279-302.
  - RIZZOLI R., BONJOUR J. P., FERRARI S. L., « Osteoporosis, genetics and hormones », *J Mol Endocrinol*, 2001, 26: 79-94.
  - RUTHERFORD P. M., « Is there a role for exercise in the prevention of osteoporotic fractures? », *Br J Sports Med*, 1999, 33: 378-386.
  - SAGGESE G., BERTELLONI S., BARONCELLI G. I., « Sex steroids and the acquisition of bone mass », *Horm Res*, 1997, 48(Suppl 5): 65-71.
  - SCHENAU E., FROST H. M., « The “muscle-bone unit” in children and adolescents », *Calcif Tissue Int*, 2002, 70(5): 405-407.
  - SCHENAU E., NEU C. M., RAUCH F., MANZ F., « The development of bone stren-

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gth at the proximal radius during childhood and adolescence », *J Clin Endocrinol Metab*, 2001, 86: 613-618.

- SCHOENAU E., SCHWAHN B., RAUCH F., « The muscle-bone relationship: methods and management - perspectives in glycogen storage disease », *Eur J Pediatr*, 2002, 161(Suppl 1): S50-S52.
- SEEMAN E., « Periosteal bone formation - a neglected determinant of bone strength », *N Engl J Med*, 2003, 349(4): 320-323.
- SPECKER B. L., MULLIGAN L., HO M., « Longitudinal study of calcium intake, physical activity, and bone mineral content in infants 6-19 months of age », *J Bone Miner Res*, 1999, 14(4): 569-576.
- TANAKA S. M., LI J., DUNCAN R. L., YOKOTA H., BURR D. B., TURNER C. H., « Effects of broad frequency vibration on cultured osteoblasts », *J Biomech*, 2003, 36: 73-80.
- THEINTZ G., BUCHS B., RIZZOLI R., SLOSMAN D., CLAVIEN H., SIZONENKO P. C., BONJOUR J. P., « Longitudinal monitoring of bone mass accumulation in healthy adolescents: evidence for a marked reduction after 16 years of age at the levels of lumbar spine and femoral neck in female subjects », *J Clin Endocrinol Metab*, 1992, 75(4): 1060-1065.
- TURNER C. H., « Muscle-bone interactions, revisited », *Bone*, 2000, 27(3): 339-340.
- VAN BEZOIJEN R. L., ROELEN B. A., VISSER A., VAN DER WEE-PALS L., DE WILT E., KARPERIEN M., HAMERSMA H., PAPAPOULOS S. E., TEN DIJKE P., LOWIK C. W., « Sclerostin is an osteocyte-expressed negative regulator of bone formation, but not a classical BMP antagonist », *J Exp Med*, 2004, 199(6): 805-814.
- WITZKE K. A., SNOW C. M., « Effects of plyometric jump training on bone mass in adolescent girls », *Med Sci Sports Exerc*, 2000, 32(6): 1051-1057.
- ZANKER C. L., GANNON L., COOKE C. B., GEE K. L., OLDROYD B., TRUSCOTT J. G., « Differences in bone density, body composition, physical activity, and diet between child gymnasts and untrained children 7-8 years of age », *J Bone Miner Res*, 2003, 18(6): 1043-1050.

## Chapitre 2-B

- ALOIA J. F., RASULO P., DEFTOS L. J., VASWANI A., YEH J. K., « Exercise-induced hypercalcemia and the calcitropic hormones », *J Lab Clin Med*, 1985, 106(3): 229-232.
- BELLIDO T., SAINI V., PAJEVIC P. D., « Effects of PTH on osteocyte function », *Bone*, 2013, : in press.
- BLAIR H. C., ROBINSON L. J., SUN L., ISALES C., DAVIES T. F., ZAIDI M., « Skeletal receptors for steroid-family regulating glycoprotein hormones: A multilevel, integrated physiological control system », *Ann N Y Acad Sci*, 2011, 1240: 26-31.
- BROOK C. G., HINDMARSH P. C., « The somatotropic axis in puberty », *Endocrinol Metab Clin North Am*, 1992, 21(4): 767-782.
- BUCKLER J. M., « Exercise as a screening test for growth hormone release », *Acta*

*Endocrinol (Copenh)*, 1972, 69(2): 219-229.

- BURREN C. P., WANEK D., MOHAN S., COHEN P., GUEVARA-AGUIRRE J., ROSEN-FELD R. G., « Serum levels of insulin-like growth factor binding proteins in Ecuadorean children with growth hormone insensitivity », *Acta Paediatr Suppl*, 1999, 88(428): 185-191; discussion 192.
- CAPPON J., BRASEL J. A., MOHAN S., COOPER D. M., « Effect of brief exercise on circulating insulin-like growth factor I », *J Appl Physiol*, 1994, 76(6): 2490-2496.
- CHRISTENSEN S. E., JORGENSEN O. L., MOLLER N., ORSKOV H., « Characterization of growth hormone release in response to external heating. Comparison to exercise induced release », *Acta Endocrinol (Copenh)*, 1984, 107(3): 295-301.
- COOPER C., CAWLEY M., BHALLA A., EGGER P., RING F., MORTON L., BARKER D., « Childhood growth, physical activity, and peak bone mass in women », *J Bone Miner Res*, 1995, 10(6): 940-947.
- DE CREE C., « Sex steroid metabolism and menstrual irregularities in the exercising female. A review », *Sports Med*, 1998, 25(6): 369-406.
- DELAVEYNE-BITBOL R., GARABEDIAN M., « In vitro responses to 17beta-estradiol throughout pubertal maturation in female human bone cells », *J Bone Miner Res*, 1999, 14(3): 376-385.
- ELIAKIM A., NEMET D., ZALDIVAR F., MCMURRAY R. G., CULLER F. L., GALASSETTI P., COOPER D. M., « Reduced exercise-associated response of the GH-IGF-I axis and catecholamines in obese children and adolescents », *J Appl Physiol*, 2006, 100(5): 1630-1637.
- ELIAS A. N., WILSON A. F., NAQVI S., PANDIAN M. R., « Effects of blood pH and blood lactate on growth hormone, prolactin, and gonadotropin release after acute exercise in male volunteers », *Proc Soc Exp Biol Med*, 1997, 214(2): 156-160.
- FALK B., ELIAKIM A., « Resistance training, skeletal muscle and growth », *Pediatr Endocrinol Rev*, 2003, 1(2): 120-127.
- FELSING N. E., BRASEL J. A., COOPER D. M., « Effect of low and high intensity exercise on circulating growth hormone in men », *J Clin Endocrinol Metab*, 1992, 75(1): 157-162.
- FRANKLYN J. A., BETTERIDGE J., DAYKIN J., HOLDER R., OATES G. D., PARLE J. V., LILLEY J., HEATH D. A., SHEPPARD M. C., « Long-term thyroxine treatment and bone mineral density », *Lancet*, 1992, 340(8810): 9-13.
- GARNERO P., VASSY V., BERTHOLIN A., RIOU J. P., DELMAS P. D., « Markers of bone turnover in hyperthyroidism and the effects of treatment », *J Clin Endocrinol Metab*, 1994, 78(4): 955-959.
- GERSTENFELD L. C., KELLY C. M., VON DECK M., LIAN J. B., « Effect of 1,25-dihydroxy-vitamin D3 on induction of chondrocyte maturation in culture: extracellular matrix gene expression and morphology », *Endocrinology*, 1990, 126(3): 1599-1609.
- GIANNOULIS M. G., BOROUJERDI M. A., POWRIE J., DALL R., NAPOLI R.,

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EHRNBORG C., PENTECOST C., CITTADINI A., JORGENSEN J. O., SONKSEN P. H., « Gender differences in growth hormone response to exercise before and after rhGH administration and the effect of rhGH on the hormone profile of fit normal adults », *Clin Endocrinol (Oxf)*, 2005, 62(3): 315-322.

- GIUSTINA A., VELDHUIS J. D., « Pathophysiology of the neuroregulation of growth hormone secretion in experimental animals and the human », *Endocr Rev*, 1998, 19(6): 717-797.
- GLEESON H. K., SHALET S. M., « GH responsiveness varies during the menstrual cycle », *Eur J Endocrinol*, 2005, 153(6): 775-779.
- GRAY A. B., TELFORD R. D., WEIDEMANN M. J., « Endocrine response to intense interval exercise », *Eur J Appl Physiol Occup Physiol*, 1993, 66(4): 366-371.
- GREENE S. A., TORRESANI T., PRADER A., « Growth hormone response to a standardised exercise test in relation to puberty and stature », *Arch Dis Child*, 1987, 62(1): 53-56.
- HAKKINEN K., PAKARINEN A., « Acute hormonal responses to two different fatiguing heavy-resistance protocols in male athletes », *J Appl Physiol*, 1993, 74(2): 882-887.
- HOLT R. I., WEBB E., PENTECOST C., SONKSEN P. H., « Aging and physical fitness are more important than obesity in determining exercise-induced generation of GH », *J Clin Endocrinol Metab*, 2001, 86(12): 5715-5720.
- JURIMAE J., LATT E., HALJASTE K., PURGE P., CICCHELLA A., JURIMAE T., « A longitudinal assessment of ghrelin and bone mineral density with advancing pubertal maturation in adolescent female athletes », *J Sports Med Phys Fitness*, 2010, 50(3): 343-349.
- KANAKA-GANTENBEIN C., « The impact of exercise on thyroid hormone metabolism in children and adolescents », *Horm Metab Res*, 2005, 37(9): 563-565.
- KANALEY J. A., WELTMAN J. Y., PIEPER K. S., WELTMAN A., HARTMAN M. L., « Cortisol and growth hormone responses to exercise at different times of day », *J Clin Endocrinol Metab*, 2001, 86(6): 2881-2889.
- KANALEY J. A., WELTMAN J. Y., VELDHUIS J. D., ROGOL A. D., HARTMAN M. L., WELTMAN A., « Human growth hormone response to repeated bouts of aerobic exercise », *J Appl Physiol*, 1997, 83(5): 1756-1761.
- KLAUS G., MEINHOLD-HEERLEIN R., MILDE P., RITZ E., MEHLS O., « Effect of vitamin D on growth cartilage cell proliferation in vitro », *Pediatr Nephrol*, 1991, 5(4): 461-466.
- KRAEMER R. R., FRANCOIS M., CASTRACANE V. D., « Estrogen mediation of hormone responses to exercise », *Metabolism*, 2012, 61(10): 1337-1346.
- LAANEOTS L., KARELSON K., SMIRNOVA T., VIRU A., « Hormonal responses to exercise in girls during sexual maturation », *J Physiol Pharmacol*, 1998, 49(1): 121-133.
- LJUNGHALL S., JOBORN H., ROXIN L. E., RASTAD J., WIDE L., AKERSTROM G.,

- « Prolonged low-intensity exercise raises the serum parathyroid hormone levels », *Clin Endocrinol (Oxf)*, 1986, 25(5): 535-542.
- LUGER A., WATSCHINGER B., DEUSTER P., SVOBODA T., CLODI M., CHROUSOS G. P., « Plasma growth hormone and prolactin responses to graded levels of acute exercise and to a lactate infusion », *Neuroendocrinology*, 1992, 56(1): 112-117.
  - MARIN G., DOMENE H. M., BARNES K. M., BLACKWELL B. J., CASSORLA F. G., CUTLER G. B., Jr, « The effects of estrogen priming and puberty on the growth hormone response to standardized treadmill exercise and arginine-insulin in normal girls and boys », *J Clin Endocrinol Metab*, 1994, 79(2): 537-541.
  - MARTHA P. M., Jr, GORMAN K. M., BLIZZARD R. M., ROGOL A. D., VELDHUIS J. D., « Endogenous growth hormone secretion and clearance rates in normal boys, as determined by deconvolution analysis: relationship to age, pubertal status, and body mass », *J Clin Endocrinol Metab*, 1992, 74(2): 336-344.
  - MOSEKILDE L., ERIKSEN E. F., CHARLES P., « Effects of thyroid hormones on bone and mineral metabolism », *Endocrinol Metab Clin North Am*, 1990, 19(1): 35-63.
  - NEMET D., COOPER D. M., « Exercise, diet, and childhood obesity: the GH-IGF-I connection », *J Pediatr Endocrinol Metab*, 2002, 15 Suppl 2: 751-757.
  - NEMET D., ELIAKIM A., « Growth hormone-insulin-like growth factor-1 and inflammatory response to a single exercise bout in children and adolescents », *Med Sport Sci*, 2010, 55: 141-155.
  - PILZ-BURSTEIN R., ASHKENAZI Y., YAAKOBOVITZ Y., COHEN Y., ZIGEL L., NEMET D., SHAMASH N., ELIAKIM A., « Hormonal response to Taekwondo fighting simulation in elite adolescent athletes », *Eur J Appl Physiol*, 2010, 110(6): 1283-1290.
  - POMERANTS T., TILLMANN V., KARELSON K., JURIMAE J., JURIMAE T., « Impact of acute exercise on bone turnover and growth hormone/insulin-like growth factor axis in boys », *J Sports Med Phys Fitness*, 2008, 48(2): 266-271.
  - PRITZLAFF C. J., WIDEMAN L., WELTMAN J. Y., ABBOTT R. D., GUTGESELL M. E., HARTMAN M. L., VELDHUIS J. D., WELTMAN A., « Impact of acute exercise intensity on pulsatile growth hormone release in men », *J Appl Physiol*, 1999, 87(2): 498-504.
  - RAMOS E., FRONTERA W. R., LLOPART A., FELICIANO D., « Muscle strength and hormonal levels in adolescents: gender related differences », *Int J Sports Med*, 1998, 19(8): 526-531.
  - RONG H., BERG U., TORRING O., SUNDBERG C. J., GRANBERG B., BUCHT E., « Effect of acute endurance and strength exercise on circulating calcium-regulating hormones and bone markers in young healthy males », *Scand J Med Sci Sports*, 1997, 7(3): 152-159.
  - ROTH J., GLICK S. M., YALOW R. S., BERSON S. A., « Secretion of human growth hormone: physiologic and experimental modification », *Metabolism*, 1963, 12: 577-579.
  - SCHIMMEL M., UTIGER R. D., « Thyroidal and peripheral production of thyroid

## L'enfant et l'activité physique

hormones. Review of recent findings and their clinical implications », *Ann Intern Med*, 1977, 87(6): 760-768.

- SCHWARZ A. J., BRASEL J. A., HINTZ R. L., MOHAN S., COOPER D. M., « Acute effect of brief low- and high-intensity exercise on circulating insulin-like growth factor (IGF) I, II, and IGF-binding protein-3 and its proteolysis in young healthy men », *J Clin Endocrinol Metab*, 1996, 81(10): 3492-3497.
- SINNESAEL M., CLAESSENS F., BOONEN S., VANDERSCHUEREN D., « Novel insights in the regulation and mechanism of androgen action on bone », *Curr Opin Endocrinol Diabetes Obes*, 2013, 27: in press.
- SUTTON J., LAZARUS L., « Growth hormone in exercise: comparison of physiological and pharmacological stimuli », *J Appl Physiol*, 1976, 41(4): 523-527.
- THEINTZ G., BUCHS B., RIZZOLI R., SLOSMAN D., CLAVIEN H., SIZONENKO P. C., BONJOUR J. P., « Longitudinal monitoring of bone mass accumulation in healthy adolescents: evidence for a marked reduction after 16 years of age at the levels of lumbar spine and femoral neck in female subjects », *J Clin Endocrinol Metab*, 1992, 75(4): 1060-1065.
- THEINTZ G., LADAME F., HOWALD H., WEISS U., TORRESANI T., SIZONENKO P. C., « [The child, growth and high-level sports] », *Schweiz Z Med Traumatol*, 1994, (3): 7-15.
- THOMAS N. E., LEYSHON A., HUGHES M. G., DAVIES B., GRAHAM M., BAKER J. S., « The effect of anaerobic exercise on salivary cortisol, testosterone and immunoglobulin (A) in boys aged 15-16 years », *Eur J Appl Physiol*, 2009, 107(4): 455-461.
- THORSEN K., KRISTOFFERSSON A., HULTDIN J., LORENTZON R., « Effects of moderate endurance exercise on calcium, parathyroid hormone, and markers of bone metabolism in young women », *Calcif Tissue Int*, 1997, 60(1): 16-20.
- THORSEN K., KRISTOFFERSSON A., LORENTZON R., « The effects of brisk walking on markers of bone and calcium metabolism in postmenopausal women », *Calcif Tissue Int*, 1996, 58(4): 221-225.
- VIRU A., KARELSON K., SMIRNOVA T., « Stability and variability in hormonal responses to prolonged exercise », *Int J Sports Med*, 1992, 13(3): 230-235.
- VIRU A., LAANEOTS L., KARELSON K., SMIRNOVA T., VIRU M., « Exercise-induced hormone responses in girls at different stages of sexual maturation », *Eur J Appl Physiol Occup Physiol*, 1998, 77(5): 401-408.
- VIRU A., VIRU M., « Cortisol--essential adaptation hormone in exercise », *Int J Sports Med*, 2004, 25(6): 461-464.
- WALLACE J. D., CUNEO R. C., BAXTER R., ORSKOV H., KEAY N., PENTECOST C., DALL R., ROSEN T., JORGENSEN J. O., CITTADINI A., LONGOBARDI S., SACCA L., CHRISTIANSEN J. S., BENGTSSON B. A., SONKSEN P. H., « Responses of the growth hormone (GH) and insulin-like growth factor axis to exercise, GH administration, and GH withdrawal in trained adult males: a potential test for GH abuse in sport », *J Clin*

*Endocrinol Metab*, 1999, 84(10): 3591-3601.

- WHELDON A., SAVINE R. L., SONKSEN P. H., HOLT R. I., « Exercising in the cold inhibits growth hormone secretion by reducing the rise in core body temperature », *Growth Horm IGF Res*, 2006, 16(2): 125-131.
- WIDEMAN L., CONSITT L., PATRIE J., SWEARINGIN B., BLOOMER R., DAVIS P., WELTMAN A., « The impact of sex and exercise duration on growth hormone secretion », *J Appl Physiol*, 2006, 101(6): 1641-1647.
- WIDEMAN L., WELTMAN J. Y., SHAH N., STORY S., VELDHUIS J. D., WELTMAN A., « Effects of gender on exercise-induced growth hormone release », *J Appl Physiol*, 1999, 87(3): 1154-1162.
- YEH J. K., ALOIA J. F., « Effect of physical activity on calciotropic hormones and calcium balance in rats », *Am J Physiol*, 1990, 258(2 Pt 1): E263-268.
- ZALLONE A., « Direct and indirect estrogen actions on osteoblasts and osteoclasts », *Ann N Y Acad Sci*, 2006, 1068: 173-179.

## **Chapitre 2-C**

- AMIARD V., JULLIEN H., NASSIF D., MAINGOURD Y., AHMAIDI S., « Relationship between dyspnea increase and ventilatory gas exchange thresholds during exercise in children with surgically corrected heart impairment », *Int J Sports Med*, 2007, 28(4): 333-339.
- ANDERSEN K. L., SELIGER V., RUTENFRANZ J., MESSEL S., « Physical performance capacity of children in Norway. III. Respiratory responses to graded exercise loadings--population parameters in a rural community », *Eur J Appl Physiol Occup Physiol*, 1974, 33(4): 265-274.
- ARMSTRONG N., KIRBY B. J., MCMANUS A. M., WELSMAN J. R., « Prepubescents' ventilatory responses to exercise with reference to sex and body size », *Chest*, 1997, 112(6): 1554-1560.
- ASMUSSEN E., SECHER N. H., ANDERSEN E. A., « Heart rate and ventilatory frequency as dimension-dependent variables », *Eur J Appl Physiol Occup Physiol*, 1981, 46(4): 379-386.
- ASTRAND P. O., *Experimental studies of physical working capacity in relation to sex and age*, Munksgaard, 1952.
- BABB T. G., « Mechanical ventilatory constraints in aging, lung disease, and obesity: perspectives and brief review », *Med Sci Sports Exerc*, 1999, 31(1 Suppl): S12-22.
- BECKLAKE M. R., KAUFFMANN F., « Gender differences in airway behaviour over the human life span », *Thorax*, 1999, 54(12): 1119-1138.
- BOREL B., LECLAIR E., THEVENET D., BEGHIN L., GOTTRAND F., FABRE C., « Comparison of mechanical ventilatory constraints between continuous and intermittent exercises in healthy prepubescent children », *Pediatr Pulmonol*, 2011, 46(8): 785-794.
- BOREL B., LECLAIR E., THEVENET D., BEGHIN L., GOTTRAND F., FABRE C., « Mecha-

## L'enfant et l'activité physique

nical ventilatory constraints during incremental exercise in healthy and cystic fibrosis children », *Pediatr Pulmonol*, 2013, In Press.

- COOPER D. M., KAPLAN M. R., BAUMGARTEN L., WEILER-RAVELL D., WHIPP B. J., WASSERMAN K., « Coupling of ventilation and CO<sub>2</sub> production during exercise in children », *Pediatr Res*, 1987, 21(6): 568-572.
- COOPER D. M., WEILER-RAVELL D., WHIPP B. J., WASSERMAN K., « Aerobic parameters of exercise as a function of body size during growth in children », *J Appl Physiol*, 1984, 56(3): 628-634.
- COTES J. E., *Lung function. Assessment and application in medicine. 4th ed*, Blackwell Scientific, 1979.
- CUIJPERS C. E., WESSELING G., SWAEN G. M., WOUTERS E. F., « Frequency dependence of oscillatory resistance in healthy primary school children », *Respiration*, 1993, 60(3): 149-154.
- DE TROYER A., YERNAULT J. C., ENGLERT M., BARAN D., PAIVA M., « Evolution of intrathoracic airway mechanics during lung growth », *J Appl Physiol*, 1978, 44(4): 521-527.
- DEMPSEY J. A., WAGNER P. D., « Exercise-induced arterial hypoxemia », *J Appl Physiol*, 1999, 87(6): 1997-2006.
- DUCHARME F. M., DAVIS G. M., DUCHARME G. R., « Pediatric reference values for respiratory resistance measured by forced oscillation », *Chest*, 1998, 113(5): 1322-1328.
- DUNNILL M., « Postnatal growth of the lung », *Thorax*, 1962, 17: 329-334.
- GADHOKE S., JONES N. L., « The responses to exercise in boys aged 9-15 years », *Clin Sci*, 1969, 37(3): 789-801.
- GAULTIER C., GIRARD F., « [Normal and pathological lung growth: structure-function relationships (author's transl)] », *Bull Eur Physiopathol Respir*, 1980, 16(6): 791-842.
- GAULTIER C., PERRET L., BOULE M., BUVRY A., GIRARD F., « Occlusion pressure and breathing pattern in healthy children », *Respir Physiol*, 1981, 46(1): 71-80.
- GERHARDT T., HEHRE D., FELLER R., REIFENBERG L., BANCALARI E., « Pulmonary mechanics in normal infants and young children during first 5 years of life », *Pediatr Pulmonol*, 1987, 3(5): 309-316.
- GIARDINI A., ODENDAAL D., KHAMBADKONE S., DERRICK G., « Physiologic decrease of ventilatory response to exercise in the second decade of life in healthy children », *Am Heart J*, 2011, 161(6): 1214-1219.
- GRATAS-DELAMARCHE A., MERCIER J., RAMONATXO M., DASSONVILLE J., PREFAUT C., « Ventilatory response of prepubertal boys and adults to carbon dioxide at rest and during exercise », *Eur J Appl Physiol Occup Physiol*, 1993, 66(1): 25-30.
- HELLIESEN P. J., COOK C. D., FRIEDLANDER L., AGATHON S., « Studies of respiratory physiology in children. I. Mechanics of respiration and lung volumes in 85 normal children 5 to 17 years of age », *Pediatrics*, 1958, 22(1, Part 1): 80-93.

## Bibliographie

- HORDVIK N. L., KONIG P., MORRIS D. A., KREUTZ C., PIMMEL R. L., « Normal values for forced oscillatory respiratory resistance in children », *Pediatr Pulmonol*, 1985, 1(3): 145-148.
- JAMMES Y., AURAN Y., GOUVERNET J., DELPIERRE S., GRIMAUD C., « The ventilatory pattern of conscious man according to age and morphology », *Bull Eur Physiopathol Respir*, 1979, 15: 527-540.
- JOHNSON B. D., WEISMAN I. M., ZEBALLOS R. J., BECK K. C., « Emerging concepts in the evaluation of ventilatory limitation during exercise: the exercise tidal flow-volume loop », *Chest*, 1999, 116(2): 488-503.
- KAMEL M., WENG T. R., FEATHERBY E. A., JACKMAN W. S., LEVISON H., « Relationship of mechanics of ventilation to lung volumes in children and young adults », *Scand J Respir Dis*, 1969, 50(2): 125-134.
- KESLACY S., CARRA J., RAMONATXO M., « Role of respiratory system impedance in the difference of ventilatory control between children and adults », *Respir Physiol Neurobiol*, 2008, 161(3): 239-245.
- KNUDSON R. J., LEBOWITZ M. D., HOLBERG C. J., BURROWS B., « Changes in the normal maximal expiratory flow-volume curve with growth and aging », *Am Rev Respir Dis*, 1983, 127(6): 725-734.
- KOCH G., ERIKSSON B. O., « Effect of physical training on pulmonary ventilation and gas exchange during submaximal and maximal work in boys aged 11 to 13 years », *Scand J Clin Lab Invest*, 1973, 31(1): 87-94.
- KRAEMER R., WIESE G., ALBERTINI M., BAGHRICHE M., GEUBELLE F., « Elastic behavior of the lungs in healthy children determined by means of an exponential function », *Respir Physiol*, 1983, 52(2): 229-244.
- LANTERI C. J., SLY P. D., « Changes in respiratory mechanics with age », *J Appl Physiol*, 1993, 74(1): 369-378.
- LAURSEN P. B., TSANG G. C., SMITH G. J., VAN VELZEN M. V., IGNATOVA B. B., SPRULES E. B., CHU K. S., COUTTS K. D., MCKENZIE D. C., « Incidence of exercise-induced arterial hypoxemia in prepubescent females », *Pediatr Pulmonol*, 2002, 34(1): 37-41.
- MACEK M., VAVRA J. « Anaerobic threshold in children ». In: BINKHORST R. A., KEMPER H. C. G., SARIS W. H. M., *Children and exercise XI*, Champaign, Human kinetics, 1985, 110-113.
- MANSELL A. L., BRYAN A. C., LEVISON H., « Relationship of lung recoil to lung volume and maximum expiratory flow in normal children », *J Appl Physiol*, 1977, 42(6): 817-823.
- MANZKE H., STADLOBER E., SCHELLAUF H. P., « Combined body plethysmographic, spirometric and flow volume reference values for male and female children aged 6 to 16 years obtained from “hospital normals” », *Eur J Pediatr*, 2001, 160(5): 300-306.
- MCKENZIE S. A., CHAN E., DUNDAS I., BRIDGE P. D., PAO C. S., MYLONOPOULOU

## L'enfant et l'activité physique

- M., HEALY M. J., « Airway resistance measured by the interrupter technique: normative data for 2-10 year olds of three ethnicities », *Arch Dis Child*, 2002, 87(3): 248-251.
- MEAD J., « Dysanapsis in normal lungs assessed by the relationship between maximal flow, static recoil, and vital capacity », *Am Rev Respir Dis*, 1980, 121(2): 339-342.
  - MERCIER J., VARRAY A., RAMONATXO M., MERCIER B., PREFAUT C., « Influence of anthropometric characteristics on changes in maximal exercise ventilation and breathing pattern during growth in boys », *Eur J Appl Physiol Occup Physiol*, 1991, 63(3-4): 235-241.
  - MERKUS P. J., MIJNSBERGEN J. Y., HOP W. C., DE JONGSTE J. C., « Interrupter resistance in preschool children: measurement characteristics and reference values », *Am J Respir Crit Care Med*, 2001, 163(6): 1350-1355.
  - MEYER T., FAUDE O., SCHARHAG J., URHAUSEN A., KINDERMANN W., « Is lactic acidosis a cause of exercise induced hyperventilation at the respiratory compensation point? », *Br J Sports Med*, 2004, 38(5): 622-625.
  - MOALLA W., DUPONT G., BERTHOIN S., AHMAIDI S., « Respiratory muscle deoxygenation and ventilatory threshold assessments using near infrared spectroscopy in children », *Int J Sports Med*, 2005, 26(7): 576-582.
  - MORSE M., SCHULTZ F. W., CASSEL D. E., « Relation of age to physiological response of the older boys (10-17 years) to exercice », *J Appl Physiol*, 1949, 1: 683-709.
  - MUCCI P., BAQUET G., NOURRY C., DERUELLE F., BERTHOIN S., FABRE C., « Exercise testing in children: Comparison in ventilatory thresholds changes with interval-training », *Pediatr Pulmonol*, 2013, In Press.
  - NAGANO Y., BABA R., KURAISHI K., YASUDA T., IKOMA M., NISHIBATA K., YOKOTA M., NAGASHIMA M., « Ventilatory control during exercise in normal children », *Pediatr Res*, 1998, 43(5): 704-707.
  - NOURRY C., DERUELLE F., FABRE C., BAQUET G., BART F., GROSBOIS J. M., BERTHOIN S., MUCCI P., « Exercise flow-volume loops in prepubescent aerobically trained children », *J Appl Physiol*, 2005, 99(5): 1912-1921.
  - NOURRY C., DERUELLE F., FABRE C., BAQUET G., BART F., GROSBOIS J. M., BERTHOIN S., MUCCI P., « Evidence of ventilatory constraints in healthy exercising prepubescent children », *Pediatr Pulmonol*, 2006, 41(2): 133-140.
  - NOURRY C., FABRE C., BART F., GROSBOIS J. M., BERTHOIN S., MUCCI P., « Evidence of exercise-induced arterial hypoxemia in prepubescent trained children », *Pediatr Res*, 2004, 55(4): 674-681.
  - OHUCHI H., KATO Y., TASATO H., ARAKAKI Y., KAMIYA T., « Ventilatory response and arterial blood gases during exercise in children », *Pediatr Res*, 1999, 45(3): 389-396.
  - PATERSON D. H., MCLELLAN T. M., STELLA R. S., CUNNINGHAM D. A., « Longitudinal study of ventilation threshold and maximal O<sub>2</sub> uptake in athletic boys », *J Appl Physiol*, 1987, 62(5): 2051-2057.

## Bibliographie

- PATERSON D. J., « Potassium and breathing in exercise », *Sports Med*, 1997, 23(3): 149-163.
- PERONNET F., AGUILANIU B., « Lactic acid buffering, nonmetabolic CO<sub>2</sub> and exercise hyperventilation: a critical reappraisal », *Respir Physiol Neurobiol*, 2006, 150(1): 4-18.
- PIANOSI P., WOLSTEIN R., « Carbon dioxide chemosensitivity and exercise ventilation in healthy children and in children with cystic fibrosis », *Pediatr Res*, 1996, 40(3): 508-513.
- POLGAR G., PROMADHAT V., *Pulmonary function testing in children: techniques and standards*, Saunders, 1971.
- POWERS S. K., BEADLE R. E., « Control of ventilation during submaximal exercise: a brief review », *J Sports Sci*, 1985, 3(1): 51-65.
- PRÉFAUT C., DURAND F., MUCCI P., CAILLAUD C., « Exercise-induced arterial hypoxaemia in athletes: a review », *Sports Med*, 2000, 30(1): 47-61.
- PRÉFAUT C., PESLIN R., « [Breath tests or measurement of lung volume and bronchial flow] », *Rev Mal Respir*, 1986, 3(6): 323-332.
- PRIOUX J., MATECKI S., AMSALLEM F., DENJEAN A., RAMONATXO M., « [Ventilatory response to maximal exercise in the normal child] », *Rev Mal Respir*, 2003, 20(6 Pt 1): 904-911.
- PRIOUX J., MATECKI S., MERCIER J., PREFAUT C., RAMONATXO M., « Ventilatory reserve at maximal exercise in children. A transversal study. », *Pflügers Arch*, 2000, 440: 215.
- PRIOUX J., RAMONATXO M., MERCIER J., GRANIER P., MERCIER B., PREFAUT C., « Changes in maximal exercise ventilation and breathing pattern in boys during growth: a mixed cross-sectional longitudinal study », *Acta Physiol Scand*, 1997, 161(4): 447-458.
- QUANJER P. H., BORSBOOM G. J., BRUNEKREFF B., ZACH M., FORCHE G., COTES J. E., SANCHIS J., PAOLETTI P., « Spirometric reference values for white European children and adolescents: Polgar revisited », *Pediatr Pulmonol*, 1995, 19(2): 135-142.
- QUANJER P. H., STANOJEVIC S., STOCKS J., HALL G. L., PRASAD K. V., COLE T. J., ROSENTHAL M., PEREZ-PADILLA R., HANKINSON J. L., FALASCHETTI E., GOLSHAN M., BRUNEKREEF B., AL-RAWAS O., KUHR J., TRABELSI Y., IP M. S., « Changes in the FEV(1)/FVC ratio during childhood and adolescence: an intercontinental study », *Eur Respir J*, 2010, 36(6): 1391-1399.
- RAMONATXO M., MERCIER J., EL-FASSI-BEN ABDALLAH R., VAGO P., PREFAUT C., « Breathing pattern and occlusion pressure during exercise in pre- and peripubertal swimmers », *Respir Physiol*, 1986, 65(3): 351-364.
- REYBROUCK T., WEYMANS M., STIJNS H., KNOPS J., VAN DER HAUWAERT L., « Ventilatory anaerobic threshold in healthy children. Age and sex differences », *Eur J Appl Physiol Occup Physiol*, 1985, 54(3): 278-284.

## L'enfant et l'activité physique

- ROBINSON S., « Experimental studies of physical fitness in relation to age », *Arbeitsphysiology*, 1938, 10: 318-323.
- ROWLAND T. W., *Developmental Exercise Physiology*, Human Kinetics, 1996.
- ROWLAND T. W., CUNNINGHAM L. N., « Development of ventilatory responses to exercise in normal white children. A longitudinal study », *Chest*, 1997, 111(2): 327-332.
- RUTENFRANZ J., ANDERSEN K. L., SELIGER V., KLIMMER F., BERNDT I., RUPPEL M., « Maximum aerobic power and body composition during the puberty growth period: similarities and differences between children of two European countries », *Eur J Pediatr*, 1981a, 136(2): 123-133.
- RUTENFRANZ J., ANDERSEN K. L., SELIGER V., KLIMMER F., ILMARINEN J., RUPPEL M., KYLIAN H., « Excercise ventilation during the growth spurt period: comparison between two European countries », *Eur J Pediatr*, 1981b, 136(2): 135-142.
- SHEPHARD R. J., BAR-OR O., « Alveolar ventilation in near maximum exercise. Data on pre-adolescent children and young adults », *Med Sci Sports*, 1970, 2(2): 83-92.
- SON B. K., LIM D. H., KIM J. H., « Normal predicted values of airway resistance by flow interrupter technique in Korean primary school-aged children », *Korean Paediatr Allergy Respir Dis*, 1998, 8: 198-204.
- SWAIN K. E., ROSENKRANZ S. K., BECKMAN B., HARMS C. A., « Expiratory flow limitation during exercise in prepubescent boys and girls: prevalence and implications », *J Appl Physiol*, 2010, 108(5): 1267-1274.
- THURLBECK W. M., « Postnatal human lung growth », *Thorax*, 1982, 37(8): 564-571.
- VILLENA M., SPIELVOGEL H., VARGAS E., OBERT P., ALARCON A. M., GONZALES C., FALGAIRETTE G., KEMPER H. C., « Anthropometry and lung function of 10- to 12-year-old Bolivian boys », *Int J Sports Med*, 1994, 15 Suppl 2: S75-78.
- WASSERMAN K., « The anaerobic threshold measurement to evaluate exercise performance », *Am Rev Respir Dis*, 1984, 129(2 Pt 2): S35-40.
- ZAPLETAL A., MISUR M., SAMANEK M., « Static recoil pressure of the lungs in children », *Bull Physiopathol Respir (Nancy)*, 1971, 7(1): 139-147.

## Chapitre 2-D

- ASTRAND P. O., CUDDY T. E., SALTIN B., STENBERG J., « Cardiac Output during Submaximal and Maximal Work », *J Appl Physiol*, 1964, 19: 268-274.
- BAR-OR O., SHEPHARD R. J., ALLEN C. L., « Cardiac output of 10- to 13-year-old boys and girls during submaximal exercise », *J Appl Physiol*, 1971, 30(2): 219-223.
- BOGAARD H. J., WOLTJER H. H., DEKKER B. M., VAN KEIMPEMA A. R., POSTMUS P. E., DE VRIES P. M., « Haemodynamic response to exercise in healthy young and elderly subjects », *Eur J Appl Physiol Occup Physiol*, 1997, 75(5): 435-442.
- BOISSIÈRE J., MAUFRAIS C., BAQUET G., SCHUSTER I., DAUZAT M., DOUCENDE G., OBERT P., BERTHOIN S., NOTTIN S., « Specific left ventricular twist-untwist

- mechanics during exercise in children », *J Am Soc Echo*, sous presse.
- CHEATHAM C. C., MAHON A. D., BROWN J. D., BOLSTER D. R., « Cardiovascular responses during prolonged exercise at ventilatory threshold in boys and men », *Med Sci Sports Exerc*, 2000, 32(6): 1080-1087.
  - CRAWFORD M. H., PETRU M. A., RABINOWITZ C., « Effect of isotonic exercise training on left ventricular volume during upright exercise », *Circulation*, 1985, 72(6): 1237-1243.
  - CUMMING G. R., « Hemodynamics of supine bicycle exercise in "normal" children », *Am Heart J*, 1977, 93(5): 617-622.
  - CUNNINGHAM D. A., PATERSON D. H., BLIMKIE C. J., DONNER A. P., « Development of cardiorespiratory function in circumpubertal boys: a longitudinal study », *J Appl Physiol*, 1984, 56(2): 302-307.
  - DANIELS S. R., KIMBALL T. R., MORRISON J. A., KHOURY P., MEYER R. A., « Indexing left ventricular mass to account for differences in body size in children and adolescents without cardiovascular disease », *Am J Cardiol*, 1995, 76(10): 699-701.
  - DI BELLO V., SANTORO G., TALARICO L., DI MURO C., CAPUTO M. T., GIORGI D., BERTINI A., BIANCHI M., GIUSTI C., « Left ventricular function during exercise in athletes and in sedentary men », *Med Sci Sports Exerc*, 1996, 28(2): 190-196.
  - ERIKSSON B. O., GRIMBY G., SALTIN B., « Cardiac output and arterial blood gases during exercise in pubertal boys », *J Appl Physiol*, 1971, 31(3): 348-352.
  - ERIKSSON B. O., KOCH G., « Effect of physical training on hemodynamic response during submaximal and maximal exercise in 11-13-year old boys », *Acta Physiol Scand*, 1973, 87(1): 27-39.
  - GINZTON L. E., CONANT R., BRIZENDINE M., LAKS M. M., « Effect of long-term high intensity aerobic training on left ventricular volume during maximal upright exercise », *J Am Coll Cardiol*, 1989, 14(2): 364-371.
  - GLEDHILL N., COX D., JAMNIK R., « Endurance athletes' stroke volume does not plateau: major advantage is diastolic function », *Med Sci Sports Exerc*, 1994, 26(9): 1116-1121.
  - GODFREY S., DAVIES C. T., WOZNIAK E., BARNES C. A., « Cardio-respiratory response to exercise in normal children », *Clin Sci*, 1971, 40(5): 419-431.
  - GOTSHALL R. W., BAUER T. A., FAHRNER S. L., « Cycling cadence alters exercise hemodynamics », *Int J Sports Med*, 1996, 17(1): 17-21.
  - HIGGINBOTHAM M. B., MORRIS K. G., WILLIAMS R. S., MCHALE P. A., COLEMAN R. E., COBB F. R., « Regulation of stroke volume during submaximal and maximal upright exercise in normal man », *Circ Res*, 1986, 58(2): 281-291.
  - KATSUURA T., « Influences of age and sex on cardiac output during submaximal exercise », *Ann Physiol Anthropol*, 1986, 5(1): 39-57.
  - MIYAMURA M., HONDA Y., « Maximum cardiac output related to sex and age », *Jpn J Physiol*, 1973, 23(6): 645-656.

## L'enfant et l'activité physique

- NOTOMI Y., SRINATH G., SHIOTA T., MARTIN-MIKLOVIC M. G., BEACHLER L., HOWELL K., ORYSZAK S. J., DESERRANNO D. G., FREED A. D., GREENBERG N. L., YOUNOSZAI A., THOMAS J. D., « Maturational and adaptive modulation of left ventricular torsional biomechanics: Doppler tissue imaging observation from infancy to adulthood », *Circulation*, 2006, 113(21): 2534-2541.
- NOTTIN S., VINET A., STECKEN F., NGUYEN L. D., OUNISSI F., LECOQ A. M., OBERT P., « Central and peripheral cardiovascular adaptations during a maximal cycle exercise in boys and men », *Med Sci Sports Exerc*, 2002, 34(3): 456-463.
- OYEN E. M., IGNATZY K., INGERFELD G., BRODE P., « Echocardiographic evaluation of left ventricular reserve in normal children during supine bicycle exercise », *Int J Cardiol*, 1987, 14(2): 145-154.
- PARRISH M. D., BOUCEK R. J., Jr., BURGER J., ARTMAN M. F., PARTAIN C. L., GRAHAM T. P., Jr., « Exercise radionuclide ventriculography in children: normal values for exercise variables and right and left ventricular function », *Br Heart J*, 1985, 54(5): 509-516.
- POLINER L. R., DEHMER G. J., LEWIS S. E., PARKEY R. W., BLOMQVIST C. G., WILLERSON J. T., « Left ventricular performance in normal subjects: a comparison of the responses to exercise in the upright and supine positions », *Circulation*, 1980, 62(3): 528-534.
- ROSENTHAL M., BUSH A., « Haemodynamics in children during rest and exercise: methods and normal values », *Eur Respir J*, 1998, 11(4): 854-865.
- ROWLAND T., POPOWSKI B., FERRONE L., « Cardiac responses to maximal upright cycle exercise in healthy boys and men », *Med Sci Sports Exerc*, 1997, 29(9): 1146-1151.
- ROWLAND T., POTTS J., POTTS T., SANDOR G., GOFF D., FERRONE L., « Cardiac responses to progressive exercise in normal children: a synthesis », *Med Sci Sports Exerc*, 2000a, 32(2): 253-259.
- ROWLAND T., WEHNERT M., MILLER K., « Cardiac responses to exercise in competitive child cyclists », *Med Sci Sports Exerc*, 2000b, 32(4): 747-752.
- ROWLAND T., WHATLEY BLUM J., « Cardiac dynamics during upright cycle exercise in boys », *Am J Hum Biol*, 2000, 12(6): 749-757.
- TAKAHASHI K., AL NAAMI G., THOMPSON R., INAGE A., MACKIE A. S., SMALLHORN J. F., « Normal rotational, torsion and untwisting data in children, adolescents and young adults », *J Am Soc Echocardiogr*, 2010, 23(3): 286-293.
- TURLEY K. R., WILMORE J. H., « Cardiovascular responses to treadmill and cycle ergometer exercise in children and adults », *J Appl Physiol*, 1997, 83(3): 948-957.
- ZHANG Y., ZHOU Q. C., PU D. R., ZOU L., TAN Y., « Differences in left ventricular twist related to age: speckle tracking echocardiographic data for healthy volunteers from neonate to age 70 years », *Echocardiography*, 2010, 27(10): 1205-1210.

## Chapitre 2-E

- ARMON Y., COOPER D. M., FLORES R., ZANCONATO S., BARSTOW T. J., « Oxygen uptake dynamics during high-intensity exercise in children and adults », *J Appl Physiol*, 1991, 70(2): 841-848.
- BARKER A. R., WELSMAN J. R., FULFORD J., WELFORD D., ARMSTRONG N., « Quadriceps muscle energetics during incremental exercise in children and adults », *Med Sci Sports Exerc*, 2010, 42(7): 1303-1313.
- BELL R. D., MACDOUGALL J. D., BILLETER R., HOWALD H., « Muscle fiber types and morphometric analysis of skeletal msucle in six-year-old children », *Med Sci Sports Exerc*, 1980, 12(1): 28-31.
- BERG A., KIM S. S., KEUL J., « Skeletal muscle enzyme activities in healthy young subjects », *Int J Sports Med*, 1986, 7(4): 236-239.
- BREESE B. C., WILLIAMS C. A., BARKER A. R., WELSMAN J. R., FAWKNER S. G., ARMSTRONG N., « Longitudinal change in the oxygen uptake kinetic response to heavy-intensity exercise in 14- to 16-years-old boys », *Pediatr Exerc Sci*, 2010, 22(2): 314-325.
- BROOKS G. A., MERCIER J., « Balance of carbohydrate and lipid utilization during exercise: the “crossover” concept », *J Appl Physiol*, 1994, 76(6): 2253-2261.
- DU PLESSIS M. P. S., P.J.; du Plessis, L.A.S.; Geyer, H.J.; Mathews, G.; Louw, H.N.J., Ed. (1985). The composition of muscle fibers in a group of adolescents. Children and Exercise XI. Champaign, Human Kinetics.
- ERIKSSON B. O., « Muscle metabolism in children--a review », *Acta Paediatr Scand Suppl*, 1980, 283: 20-28.
- ERIKSSON B. O., GOLLNICK P. D., SALTIN B., « Muscle metabolism and enzyme activities after training in boys 11-13 years old », *Acta Physiol Scand*, 1973, 87(4): 485-497.
- ERIKSSON B. O., KARLSSON J., SALTIN B., « Muscle metabolites during exercise in pubertal boys », *Acta Paediatr Scand Suppl*, 1971, 217: 154-157.
- ERIKSSON O., SALTIN B., « Muscle metabolism during exercise in boys aged 11 to 16 years compared to adults », *Acta Paediatr Belg*, 1974, 28 suppl: 257-265.
- FAWKNER S. G., ARMSTRONG N., « Longitudinal changes in the kinetic response to heavy-intensity exercise in children », *J Appl Physiol*, 2004, 97(2): 460-466.
- FAWKNER S. G., ARMSTRONG N., POTTER C. R., WELSMAN J. R., « Oxygen uptake kinetics in children and adults after the onset of moderate-intensity exercise », *J Sports Sci*, 2002, 20(4): 319-326.
- FELLMANN N., BEDU M., SPIELVOGEL H., FALGAIRETTE G., VAN PRAAGH E., JARRIGE J. F., COUDERT J., « Anaerobic metabolism during pubertal development at high altitude », *J Appl Physiol*, 1988, 64(4): 1382-1386.
- FLEISCHMAN A., KRON M., SYSTROM D. M., HROVAT M., GRINSPOON S. K.,

## L'enfant et l'activité physique

« Mitochondrial function and insulin resistance in overweight and normal-weight children », *J Clin Endocrinol Metab*, 2009, 94(12): 4923-4930.

- FLEISCHMAN A., MAKIMURA H., STANLEY T. L., MCCARTHY M. A., KRON M., SUN N., CHUZI S., HROVAT M. I., SYSTROM D. M., GRINSPOON S. K., « Skeletal muscle phosphocreatine recovery after submaximal exercise in children and young and middle-aged adults », *J Clin Endocrinol Metab*, 2010, 95(9): E69-74.
- FORICHER J. M., VILLE N., GRATAS-DELAMARCHE A., DELAMARCHE P., « Effects of submaximal intensity cycle ergometry for one hour on substrate utilisation in trained prepubertal boys versus trained adults », *J Sports Med Phys Fitness*, 2003, 43(1): 36-43.
- FOURNIER M., RICCI J., TAYLOR A. W., FERGUSON R. J., MONTPETIT R. R., CHAITMAN B. R., « Skeletal muscle adaptation in adolescent boys: sprint and endurance training and detraining », *Med Sci Sports Exerc*, 1982, 14(6): 453-456.
- GLENMARK B., HEDBERG G., KAIJSER L., JANSSON E., « Muscle strength from adolescence to adulthood--relationship to muscle fibre types », *Eur J Appl Physiol Occup Physiol*, 1994, 68(1): 9-19.
- HARALAMBIE G., « Enzyme activities in skeletal muscle of 13-15 years old adolescents », *Bull Eur Physiopathol Respir*, 1982, 18(1): 65-74.
- HEBESTREIT H., KRIEMLER S., HUGHSON R. L., BAR-OR O., « Kinetics of oxygen uptake at the onset of exercise in boys and men », *J Appl Physiol*, 1998, 85(5): 1833-1841.
- JUEL C., HALESTRAP A. P., « Lactate transport in skeletal muscle - role and regulation of the monocarboxylate transporter », *J Physiol*, 1999, 517 ( Pt 3): 633-642.
- KACZOR J. J., ZIOLKOWSKI W., POPINIGIS J., TARNOPOLSKY M. A., « Anaerobic and aerobic enzyme activities in human skeletal muscle from children and adults », *Pediatr Res*, 2005, 57(3): 331-335.
- KUNO S., TAKAHASHI H., FUJIMOTO K., AKIMA H., MIYAMARU M., NEMOTO I., ITAI Y., KATSUTA S., « Muscle metabolism during exercise using phosphorus-31 nuclear magnetic resonance spectroscopy in adolescents », *Eur J Appl Physiol Occup Physiol*, 1995, 70(4): 301-304.
- LUNDBERG A., ERIKSSON B. O., MELLGREN G., « Metabolic substrates, muscle fibre composition and fibre size in late walking and normal children », *Eur J Pediatr*, 1979, 130(2): 79-92.
- MARTINEZ L. R., HAYMES E. M., « Substrate utilization during treadmill running in prepubertal girls and women », *Med Sci Sports Exerc*, 1992, 24(9): 975-983.
- MCCORMACK S. E., MCCARTHY M. A., FARILLA L., HROVAT M. I., SYSTROM D. M., GRINSPOON S. K., FLEISCHMAN A., « Skeletal muscle mitochondrial function is associated with longitudinal growth velocity in children and adolescents », *J Clin Endocrinol Metab*, 2011, 96(10): E1612-1618.
- MERO A., « Blood lactate production and recovery from anaerobic exercise in trained and untrained boys », *Eur J Appl Physiol Occup Physiol*, 1988, 57(6): 660-666.

- OERTEL G., « Morphometric analysis of normal skeletal muscles in infancy, childhood and adolescence. An autopsy study », *J Neurol Sci*, 1988, 88(1-3): 303-313.
- PETERSEN S. R., GAUL C. A., STANTON M. M., HANSTOCK C. C., « Skeletal muscle metabolism during short-term, high-intensity exercise in prepubertal and pubertal girls », *J Appl Physiol*, 1999, 87(6): 2151-2156.
- RATEL S., DUCHE P., HENNEGRAVE A., VAN PRAAGH E., BEDU M., « Acid-base balance during repeated cycling sprints in boys and men », *J Appl Physiol*, 2002, 92(2): 479-485.
- RATEL S., MARTIN V., « Les exercices anaérobies lactiques chez les enfants: la fin d'une idée reçue? », *Sci Sports*, 2012, 27: 195-200.
- RATEL S., TONSON A., LE FUR Y., COZZONE P., BENDAHAN D., « Comparative analysis of skeletal muscle oxidative capacity in children and adults: a 31P-MRS study », *Appl Physiol Nutr Metab*, 2008, 33(4): 720-727.
- TAMAKI N., « Effect of growth on muscle capillarity and fiber type composition in rat diaphragm », *Eur J Appl Physiol Occup Physiol*, 1985, 54(1): 24-29.
- TAYLOR D. J., KEMP G. J., THOMPSON C. H., RADDA G. K., « Ageing: effects on oxidative function of skeletal muscle in vivo », *Mol Cell Biochem*, 1997, 174(1-2): 321-324.
- TIMMONS B. W., BAR-OR O., RIDDELL M. C., « Energy substrate utilization during prolonged exercise with and without carbohydrate intake in preadolescent and adolescent girls », *J Appl Physiol*, 2007, 103(3): 995-1000.
- TONSON A., RATEL S., LE FUR Y., VILMEN C., COZZONE P. J., BENDAHAN D., « Muscle energetics changes throughout maturation: a quantitative 31P-MRS analysis », *J Appl Physiol*, 2010, 109(6): 1769-1778.
- WILLIAMS C. A., CARTER H., JONES A. M., DOUST J. H., « Oxygen uptake kinetics during treadmill running in boys and men », *J Appl Physiol*, 2001, 90(5): 1700-1706.
- ZANCONATO S., BUCHTHAL S., BARSTOW T. J., COOPER D. M., « 31P-magnetic resonance spectroscopy of leg muscle metabolism during exercise in children and adults », *J Appl Physiol*, 1993, 74(5): 2214-2218.
- ZANCONATO S., COOPER D. M., ARMON Y., « Oxygen cost and oxygen uptake dynamics and recovery with 1 min of exercise in children and adults », *J Appl Physiol*, 1991, 71(3): 993-998.

### **Chapitre 3**

- ALI ALMARWAJY O., MARK JONES A., TOLFREY K., « Physiological correlates with endurance running performance in trained adolescents », *Med Sci Sports Exerc*, 2003, 35(3): 480-487.
- AMONETTE W. E., BROWN L. E., DE WITT J. K., DUPLER T. L., TRAN T. T., TUFANO J. J., SPIERING B. A., « Peak vertical jump power estimations in youths and young adults », *J Strength Cond Res*, 2012, 26(7): 1749-1755.

## L'enfant et l'activité physique

- ARMSTRONG N., WELSMAN J. R., *Young people and physical activity*, Oxford University Press, 1997.
- ASAI H., AOKI J., « Force development of dynamic and static contractions in children and adults », *Int J Sports Med*, 1996, 17(3): 170-174.
- ÅSTRAND P.-. *Experimental studies of physical working capacity in relation to sex and age*, Copenhagen, 1952.
- BAILEY R. C., OLSON J., PEPPER S. L., PORSZASZ J., BARSTOW T. J., COOPER D. M., « The level and tempo of children's physical activities: an observational study », *Med Sci Sports Exerc*, 1995, 27(7): 1033-1041.
- BAR-OR O., « The Wingate anaerobic test. An update on methodology, reliability and validity », *Sports Med*, 1987, 4(6): 381-394.
- BEDU M., *Epreuve de force-vitesse et test de Wingate chez l'enfant à haute et basse altitudes*, Université d'Auvergne, Clermont-Ferrand, Thèse de doctorat, 1992.
- BELANGER A. Y., MCCOMAS A. J., « Contractile properties of human skeletal muscle in childhood and adolescence », *Eur J Appl Physiol Occup Physiol*, 1989, 58(6): 563-567.
- BENEKE R., HECK H., SCHWARZ V., LEITHAUSER R., « Maximal lactate steady state during the second decade of age », *Med Sci Sports Exerc*, 1996, 28(12): 1474-1478.
- BERG A., KIM S. S., KEUL J., « Skeletal muscle enzyme activities in healthy young subjects », *Int J Sports Med*, 1986, 7(4): 236-239.
- BERTHOIN S., BAQUET G., DUPONT G., BLONDEL N., MUCCI P., « Critical velocity and anaerobic distance capacity in prepubertal children », *Can J Appl Physiol*, 2003, 28(4): 561-575.
- BERTHOIN S., BAQUET G., DUPONT G., VAN PRAAGH E., « Critical velocity during continuous and intermittent exercises in children », *Eur J Appl Physiol*, 2006, 98(2): 132-138.
- BERTHOIN S., BAQUET G., MANTÉCA F., LENSEL-CORBEIL G., GERBEAUX M., « Maximal aerobic speed and running time to exhaustion for children 6 to 17 years old », *Pediatr Exerc Sci*, 1996, 8: 234-244.
- BEUNEN G., OSTYN M., SIMONS J., RENSON R., CLAESSENS A. L., VANDEN EYNDE B., LEFEVRE J., VANREUSEL B., MALINA R. M., VAN'T HOF M. A., « Development and tracking in fitness components: Leuven longitudinal study on lifestyle, fitness and health », *Int J Sports Med*, 1997a, 18 Suppl 3: S171-178.
- BEUNEN G. P., MALINA R. M., LEFEVRE J., CLAESSENS A. L., RENSON R., KANDEN EYNDE B., VANREUSEL B., SIMONS J., « Skeletal maturation, somatic growth and physical fitness in girls 6-16 years of age », *Int J Sports Med*, 1997b, 18(6): 413-419.
- BLONC S., FALGAIRETTE G., FAYET J. C., COUDERT J., « Performances aux tests de terrain d'enfants de 11 à 16 ans. Influence de l'âge, du sexe et de l'activité physique », *Science et Motricité*, 1992, 17: 11-17.
- BOSQUET L., LEGER L., LEGROS P., « Methods to determine aerobic endurance »,

*Sports Med*, 2002, 32(11): 675-700.

- BRANTA C., HAUBENSTRICKER J., SEEFLDT V., « Age changes in motor skills during childhood and adolescence », *Exerc Sport Sci Rev*, 1984, 12: 467-520.
- BRODIE D. A., ROYCE J. « Developing flexibility during childhood and adolescence ». In: VAN PRAAGH E., *Pediatric anaerobic performance*, Champaign, Human Kinetics, 1998.
- BUTEL J., KLEIN A., PLAS F., « Etude de l'extensibilité des muscles ischio-jambiers sur 107 enfants de 9 à 14 ans scolarisés », *Ann Kinési*, 1980, 7: 205-208.
- CAIOZZO V. J., KYLE C. R., « The effect of external loading upon power output in stair climbing », *Eur J Appl Physiol Occup Physiol*, 1980, 44(3): 217-222.
- CARVALHO H. M., COELHO-E-SILVA M. J., GONCALVES C. E., PHILIPPAERTS R. M., CASTAGNA C., MALINA R. M., « Age-related variation of anaerobic power after controlling for size and maturation in adolescent basketball players », *Ann Hum Biol*, 2011, 38(6): 721-727.
- CASTRO-PINERO J., GONZALEZ-MONTESINOS J. L., KEATING X. D., MORA J., SJOSTROM M., RUIZ J. R., « Percentile values for running sprint field tests in children ages 6-17 years: influence of weight status », *Res Q Exerc Sport*, 2010, 81(2): 143-151.
- CUNNINGHAM L. N., « Relationship of running economy, ventilatory threshold, and maximal oxygen consumption to running performance in high school females », *Res Q Exerc Sport*, 1990, 61(4): 369-374.
- DALLMAN P. R., SIIMES M. A., « Percentile curves for hemoglobin and red cell volume in infancy and childhood », *J Pediatr*, 1979, 94(1): 26-31.
- DAVIES B. N., « The relationship of lean limb volume to performance in the handgrip and standing long jump tests in boys and girls, aged 11.6-13.2 years », *Eur J Appl Physiol Occup Physiol*, 1990, 60(2): 139-143.
- DAVIES C. T., WHITE M. J., YOUNG K., « Muscle function in children », *Eur J Appl Physiol Occup Physiol*, 1983, 52(1): 111-114.
- DAVIES C. T., YOUNG K., « Effects of external loading on short term power output in children and young male adults », *Eur J Appl Physiol Occup Physiol*, 1984, 52(3): 351-354.
- DAVIES C. T. M., « Strength and mechanical properties of muscle in children and young adults », *Scand J Sports Sci*, 1985, 7: 11-15.
- DELGADO A., ALLEMANDOU A., PERES G., « Changes in the characteristics of anaerobic exercise in the upper limb during puberty in boys », *Eur J Appl Physiol Occup Physiol*, 1993, 66(4): 376-380.
- DORÉ E., Évolution de la puissance maximale anaérobie dans une population non sélectionnée de filles et de garçons âgés de 7 à 21 ans, Université Blaise Pascal, Clermont-Ferrand, Thèse de doctorat, 1999.
- DORE E., MARTIN R., RATEL S., DUCHE P., BEDU M., VAN PRAAGH E., « Gender differences in peak muscle performance during growth », *Int J Sports Med*, 2005,

26(4): 274-280.

- DORÉ E., VAN PRAAGH E. « La performance anaérobie de l'enfant ». In: VAN PRAAGH E., *Physiologie du Sport : Enfant et adolescent*, Paris, De Boeck, 2007, **185-223**.
- FALGAIRETTE G., « Évolution de la puissance maximale aérobie de l'enfance à l'âge adulte : influence de l'activité physique et sportive », *Revue STAPS*, 1989, 20: 43-58.
- FAULKNER J. A., CLAFLIN D. R., MCCULLY K. K. « Power output of fast and slow fibers from human skeletal muscles ». In: JONES N. L., MCCARTNEY N., MCCOMAS A. J., *Human Muscle Power*, Champaign, Human Kinetics, 1986, 81-94.
- FAWKNER S., ARMSTRONG N., « Assessment of critical power with children », *Pediatr Exerc Sci*, 2002, 14: 258-268.
- FERRETTI G., NARICI M. V., BINZONI T., GARIOD L., LE BAS J. F., REUTENAUER H., CERRETELLI P., « Determinants of peak muscle power: effects of age and physical conditioning », *Eur J Appl Physiol Occup Physiol*, 1994, 68(2): 111-115.
- FROST G., DOWLING J., DYSON K., BAR-OR O., « Cocontraction in three age groups of children during treadmill locomotion », *J Electromyogr Kinesiol*, 1997, 7(3): 179-186.
- GERBEAUX M., PERTUZON E., MEREAUX M., « Le développement de la force durant la croissance chez l'enfant et l'adolescent », *J. Biophysique et Biomécanique*, 1986, 10: 41-46.
- GROSSET J. F., MORA I., LAMBERTZ D., PEROT C., « Age-related changes in twitch properties of plantar flexor muscles in prepubertal children », *Pediatr Res*, 2005, 58(5): 966-970.
- GROSSET J. F., MORA I., LAMBERTZ D., PEROT C., « Voluntary activation of the triceps surae in prepubertal children », *J Electromyogr Kinesiol*, 2008, 18(3): 455-465.
- HAINAUT K. « Maturation de la contraction musculaire et de l'organisation périphérique de la motricité ». In: THIEBAULD C. M., SPRUMONT P., *L'enfant et le sport*, Paris, De Boeck, 1998, **47-58**.
- HANSEN L., KLAUSEN K., MÜLLER J. « Assessment of maturity status and its relation to strength measurements ». In: ARMSTRONG N., KIRBY B., WELSMAN J., *Children and Exercise XIX*, London, E & FN Spon, 1997, 325-330.
- HAUTIER C. A., LINNOISIER M. T., BELLI A., LACOUR J. R., ARSAC L. M., « Optimal velocity for maximal power production in non-isokinetic cycling is related to muscle fibre type composition », *Eur J Appl Physiol Occup Physiol*, 1996, 74(1-2): 114-118.
- HILL D. W., « The critical power concept. A review », *Sports Med*, 1993, 16(4): 237-254.
- HILL D. W., STEWARD R. P., LANE C. J., « Application of the critical power concept to young swimmers », *Pediatr Exerc Sci*, 1995, 7: 281-293.
- KANEHISA H., IKEGAWA S., TSUNODA N., FUKUNAGA T., « Strength and cross-sectional areas of reciprocal muscle groups in the upper arm and thigh during adolescence », *Int J Sports Med*, 1995, 16(1): 54-60.

- KEMPER H. C. G., VAN DE KOP N., « Entraînement de la puissance maximale aérobie chez les enfants prépubères et pubères », *Sci Sports*, 1995, 10: 29-38.
- KEMPER H. C. G., VERSCHUUR R., DE MEY L., « Longitudinal changes of aerobic fitness in young ages 12 to 23 », *Pediatr Exerc Sci*, 1989, 1: 257-270.
- KORFF T., HUNTER E. L., MARTIN J. C., « Muscular and non-muscular contributions to maximum power cycling in children and adults: implications for developmental motor control », *J Exp Biol*, 2009, 212(Pt 5): 599-603.
- KRAHENBUHL G. S., MORGAN D. W., PANGRAZI R. P., « Longitudinal changes in distance-running performance of young males », *Int J Sports Med*, 1989, 10(2): 92-96.
- KRAHENBUHL G. S., WILLIAMS T. J., « Running economy: changes with age during childhood and adolescence », *Med Sci Sports Exerc*, 1992, 24(4): 462-466.
- LACOUR J. R., PADILLA-MAGUNACELAYA S., BARTHELEMY J. C., DORMOIS D., « The energetics of middle-distance running », *Eur J Appl Physiol Occup Physiol*, 1990, 60(1): 38-43.
- LAVOREL M., DORE E., BEDU M., VAN PRAAGH E., DUCHE P., « May motor learning affects the child's anaerobic performance? », *Proceedings of the 3rd Annual Congress of European Congress of Sports Science*, Manchester, 1998, 266.
- LÉGER L. « Aerobic performance ». In: DOCHERTY D., *Measurement in Pediatric Exercise Science*, Champaign, Human Kinetics, 1996.
- LEGER L., BOUCHER R., « An indirect continuous running multistage field test: the Universite de Montreal track test », *Can J Appl Sport Sci*, 1980, 5(2): 77-84.
- LOKO J., AULE R., SIKKUT T., ERELINE J., VIRU A., « Motor performance status in 10 to 17-year-old Estonian girls », *Scand J Med Sci Sports*, 2000, 10(2): 109-113.
- MACDOUGALL J. D., ROCHE P. D., BAR-OR O., MOROZ J. R., « Maximal aerobic capacity of Canadian schoolchildren: prediction based on age-related oxygen cost of running », *Int J Sports Med*, 1983, 4(3): 194-198.
- MAHON A. D., CHEATHAM C., « Ventilatory threshold in children : A review », *Pediatr Exerc Sci*, 2002, 14: 16-29.
- MALINA R. M., BOUCHARD C. « Muscle tissue changes during growth »*Growth, maturation and physical activity*, Champaign, Human Kinetics, 1991, 115-131.
- MARGARIA R., AGHEMO P., ROVELLI E., « Indirect determination of maximal O<sub>2</sub> consumption in man », *J Appl Physiol*, 1965, 20(5): 1070-1073.
- MARGARIA R., AGHEMO P., ROVELLI E., « Measurement of muscular power (anaerobic) in man », *J Appl Physiol*, 1966, 21(5): 1662-1664.
- MARIDAKI M., « Heritability of neuromuscular performance and anaerobic power in preadolescent and adolescent girls », *J Sports Med Phys Fitness*, 2006, 46(4): 540-547.
- MCCORMACK W. P., CURETON K. J., BULLOCK T. A., WEYAND P. G., « Metabolic determinants of 1-mile run/walk performance in children », *Med Sci Sports Exerc*, 1991, 23(5): 611-617.

## L'enfant et l'activité physique

- MOCELLIN R., HEUSGEN M., GILDEIN H. P., « Anaerobic threshold and maximal steady-state blood lactate in prepubertal boys », *Eur J Appl Physiol Occup Physiol*, 1991, 62(1): 56-60.
- MOCELLIN R., HEUSGEN M., KORSTEN-RECK U., « Maximal steady state blood lactate levels in 11-year-old boys », *Eur J Pediatr*, 1990, 149(11): 771-773.
- MORITANI T., ODDSSON L., THORSTENSSON A., ASTRAND P. O., « Neural and biomechanical differences between men and young boys during a variety of motor tasks », *Acta Physiol Scand*, 1989, 137(3): 347-355.
- NACI MARIA F., ERIC D., MARIO B., EMMANUEL V. P., « Comparison of peak muscle power between Brazilian and French girls », *Am J Hum Biol*, 2002, 14(3): 364-371.
- O'BRIEN T. D., REEVES N. D., BALTZOPOULOS V., JONES D. A., MAGANARIS C. N., « In vivo measurements of muscle specific tension in adults and children », *Exp Physiol*, 2010, 95(1): 202-210.
- OERTEL G., « Morphometric analysis of normal skeletal muscles in infancy, childhood and adolescence. An autopsy study », *J Neurol Sci*, 1988, 88(1-3): 303-313.
- OSTYN M., SIMONS J., BEUNEN G., RENSON R., VAN GERVEN D., *Somatic and motor development of Belgian secondary schoolboys*, Leuven University Press, 1980.
- PAPAIAKOVOU G., GIANNAKOS A., MICHAILEDIS C., PATIKAS D., BASSA E., KALOPISSIS V., ANTHRAKIDIS N., KOTZAMANIDIS C., « The effect of chronological age and gender on the development of sprint performance during childhood and puberty », *J Strength Cond Res*, 2009, 23(9): 2568-2573.
- PINEAU J.-C., FERRY A., DUVALLET A., « Influence de la puberté sur les résultats aux tests d'aptitude physique chez les jeunes sportifs des deux sexes », *Cinésiologie*, 1988, 120: 209-215.
- PIRNAY F., CRIELAARD J.-M., « Influence de l'hérédité sur les performances physiques », *Médecine du Sport*, 1983, 57: 29-33.
- RATEL S., LEMAÎTRE F., PETIT I., DUCHÉ P., BEDU M., « Influence du volant d'inertie d'une bicyclette ergométrique sur la puissance maximale anaérobie chez les enfants et les adultes », *VIIIème Congrès International de l'ACAPS*, Macolin (Suisse), 1999a, 481-482.
- RATEL S., POUJADE B., HAUTIER C. A., DUCHÉ P., BEDU M., « Inter-muscular coordination pattern during cycling in children and adults », *Med Sci Sports Exerc*, 1999b, 31: s317.
- REYBROUCK T., WEYMANS M., STIJNS H., KNOPS J., VAN DER HAUWAERT L., « Ventilatory anaerobic threshold in healthy children. Age and sex differences », *Eur J Appl Physiol Occup Physiol*, 1985, 54(3): 278-284.
- ROWLAND T. W., « Does peak VO<sub>2</sub> reflect VO<sub>2max</sub> in children?: evidence from supramaximal testing », *Med Sci Sports Exerc*, 1993, 25(6): 689-693.
- ROWLAND T. W., *Physiologie de l'exercice chez l'enfant*, De Boeck, 2010.

- ROWLAND T. W., GREEN G. M., « Physiological responses to treadmill exercise in females: adult-child differences », *Med Sci Sports Exerc*, 1988, 20(5): 474-478.
- SARGENT D. A., « The physical test of a man », *American Physical Education Review*, 1921, 26(4): 188-194.
- SECK D., VANDEWALLE H., MONOD H., « Puissance maximale sur ergocycle et délai d'atteinte du pic de vitesse chez l'enfant et l'adulte », *Sci Sports*, 1991, 6: 253-254.
- SEEFELDT V., HAUBENSTRICKER J. « Patterns, phases or stages: an analytical model for the study of developmental movement ». In: KELSO J. A. S., CLARK J. E., *The development of movement control and coordination*, New-York, Wiley, 1982, 309-318.
- SIMONEAU J.-A., BOUCHARD C. « The effects of genetic variation on anaerobic performance ». In: VAN PRAAGH E., *Pediatric anaerobic performance*, Champaign, Human Kinetics, 1998, 5-21.
- SIMONEAU J.-A., LORTIE G., LEBLANC C., BOUCHARD C. « Anaerobic lactacid work capacity in adopted and biological siblings ». In: MALINA R. M., BOUCHARD C., *Sports and Human Genetics*, Champaign, Human Kinetics, 1986, 165-171.
- SIMONS J., BEUNEN G., RENSON R., CLAESSENS A. L., VANREUSEL B., LEFEVRE J. « Growth and Fitness of Flemish Girls. The leuven growth study », Champaign, Human Kinetics, 1990.
- SZCZESNY S., COUDERT J., « Développement de la vitesse de course chez la fille lors de la puberté », *Science et Motricité*, 1987, 1: 15-21.
- THORSTENSSON A., « Effects of moderate external loading on the aerobic demand of submaximal running in men and 10 year-old boys », *Eur J Appl Physiol Occup Physiol*, 1986, 55(6): 569-574.
- VAN MECHELEN W., *Eurofit : handleiding met referentieschalen voor 12- tot en met 16-jarige jongens en meisjes in Nederland*, De Vrieseborch, 1991.
- VAN PRAAGH E., FALGAIRETTE G., BEDU M., FELLMANN N., COUDERT J. « Laboratory and field tests in 7-year-old boys ». In: OSEID S., CARLSSEN K. H., *Children and Exercise XIII*, Champaign, Human Kinetics, 1989, 11-17.
- VAN PRAAGH E., FELLMANN N., BEDU M., FALGAIRETTE G., COUDERT J., « Gender difference in the relationship of anaerobic power output to body composition in children », *Pediatr Exerc Sci*, 1990, 2: 336-348.
- VANDEWALLE H., VAUTIER J. F., KACHOURI M., LECHEVALIER J. M., MONOD H., « Work-exhaustion time relationships and the critical power concept. A critical review », *J Sports Med Phys Fitness*, 1997, 37(2): 89-102.
- WASHINGTON R. L., VAN GUNDY J. C., COHEN C., SONDHEIMER H. M., WOLFE R. R., « Normal aerobic and anaerobic exercise data for North American school-age children », *J Pediatr*, 1988, 112(2): 223-233.
- WASSERMAN K., WHIPP B. J., KOYL S. N., BEAVER W. L., « Anaerobic threshold and respiratory gas exchange during exercise », *J Appl Physiol*, 1973, 35(2): 236-243.
- WELSMAN J. R., ARMSTRONG N., « Longitudinal changes in submaximal oxygen

uptake in 11- to 13-year-olds », *J Sports Sci*, 2000, 18(3): 183-189.

## Chapitre 4

- ARMATAS V., BASSA E., PATIKAS D., KITSAS I., ZANGELIDIS G., KOTZAMANIDIS C., « Neuromuscular differences between men and prepubescent boys during a peak isometric knee extension intermittent fatigue test », *Pediatr Exerc Sci*, 2010, 22(2): 205-217.
- BAR-OR O., « The young athlete: some physiological considerations », *J Sports Sci*, 1995, 13 Spec No: S31-33.
- BAR-OR O., ROWLAND T., *Pediatric exercise medicine: from physiological principles to health care application*, Human Kinetics, 2004.
- BELL R. D., MACDOUGALL J. D., BILLETER R., HOWALD H., « Muscle fiber types and morphometric analysis of skeletal msucle in six-year-old children », *Med Sci Sports Exerc*, 1980, 12(1): 28-31.
- BENEKE R., HUTLER M., JUNG M., LEITHAUSER R. M., « Modeling the blood lactate kinetics at maximal short-term exercise conditions in children, adolescents, and adults », *J Appl Physiol*, 2005, 99(2): 499-504.
- BERG A., KEUL J. « Biochemical changes during exercise in children ». In: MALINA R. M., *Young Athletes/Biological, Psychological and Educational Perspectives*, Champaign, Human Kinetics, 1988, 61-77.
- BERG A., KIM S. S., KEUL J., « Skeletal muscle enzyme activities in healthy young subjects », *Int J Sports Med*, 1986, 7(4): 236-239.
- BIGLAND-RITCHIE B., « Muscle fatigue and the influence of changing neural drive », *Clin Chest Med*, 1984, 5(1): 21-34.
- BOGDANIS G. C., NEVILL M. E., BOOBIS L. H., LAKOMY H. K., « Contribution of phosphocreatine and aerobic metabolism to energy supply during repeated sprint exercise », *J Appl Physiol*, 1996, 80(3): 876-884.
- BOGDANIS G. C., NEVILL M. E., BOOBIS L. H., LAKOMY H. K., NEVILL A. M., « Recovery of power output and muscle metabolites following 30 s of maximal sprint cycling in man », *J Physiol*, 1995, 482 ( Pt 2): 467-480.
- BOGDANIS G. C., PAPASPYROU A., THEOS A., MARIDAKI M., « Influence of resistive load on power output and fatigue during intermittent sprint cycling exercise in children », *Eur J Appl Physiol*, 2007, 101(3): 313-320.
- BOTTARO M., BROWN L. E., CELES R., MARTORELLI S., CARREGARO R., DE BRITO VIDAL J. C., « Effect of rest interval on neuromuscular and metabolic responses between children and adolescents », *Pediatr Exerc Sci*, 2011, 23(3): 311-321.
- CHIA M. Y. H., « Recovery of Wingate anaerobic test power following prior sprints of a short duration: a comparison between girls and women », *21st Symposium of the European Group of Pediatric Work Physiology*, Corsendonk, 2001, 12-16.
- COLLIANDER E. B., DUDLEY G. A., TESCH P. A., « Skeletal muscle fiber type compo-

- sition and performance during repeated bouts of maximal, concentric contractions », *Eur J Appl Physiol Occup Physiol*, 1988, 58(1-2): 81-86.
- CUMMING G. R., « Recirculation times in exercising children », *J Appl Physiol*, 1978, 45(6): 1005-1008.
  - DAHLSTROM M., ESBJORNSSON LILJEDAHL M., GIERUP J., KAIJSER L., JANSSON E., « High proportion of type I fibres in thigh muscle of young dancers », *Acta Physiol Scand*, 1997, 160(1): 49-55.
  - DE STE CROIX M. B., DEIGHAN M. A., RATEL S., ARMSTRONG N., « Age- and sex-associated differences in isokinetic knee muscle endurance between young children and adults », *Appl Physiol Nutr Metab*, 2009, 34(4): 725-731.
  - DIPLA K., TSIRINI T., ZAFEIRIDIS A., MANOU V., DALAMITROS A., KELLIS E., KELLIS S., « Fatigue resistance during high-intensity intermittent exercise from childhood to adulthood in males and females », *Eur J Appl Physiol*, 2009, 106(5): 645-653.
  - DORE E., DIALLO O., FRANCA N. M., BEDU M., VAN PRAAGH E., « Dimensional changes cannot account for all differences in short-term cycling power during growth », *Int J Sports Med*, 2000, 21(5): 360-365.
  - DOTAN R., OHANA S., BEDIZ C., FALK B., « Blood lactate disappearance dynamics in boys and men following exercise of similar and dissimilar peak-lactate concentrations », *J Pediatr Endocrinol Metab*, 2003, 16(3): 419-429.
  - DU PLESSIS M. P., SMIT P. J., DU PLESSIS L. A. S., GEYER H. J., MATHEWS G., LOUW H. N. J. « The composition of muscle fibers in a group of adolescents ». In: BINKHORST R. A., KEMPER H. C. G., SARIS W. H. M., *Children and Exercise XI*, Champaign, Human Kinetics, 1985, 323-328.
  - DUPONT G., BERTHOIN S., GERBEAUX M., « Performance during anaerobic intermittent exercise: comparison between children and mature subjects », *Sci Sports*, 2000, 15: 147-153.
  - EDWARDS R. H. T. « Biochemical basis of fatigue in exercise performance: catastrophe theory of muscular fatigue ». In: KNUTTGEN H. G., VOGEL J. A., POORTMANS J., *Biochemistry of Exercise* Champaign, Human Kinetics, 1983, 3-28.
  - ENOKA R. M., « Mechanisms of muscle fatigue: Central factors and task dependency », *J Electromyogr Kinesiol*, 1995, 5(3): 141-149.
  - ERIKSSON B. O., GOLLNICK P. D., SALTIN B., « Muscle metabolism and enzyme activities after training in boys 11-13 years old », *Acta Physiol Scand*, 1973, 87(4): 485-497.
  - ERIKSSON B. O., KARLSSON J., SALTIN B., « Muscle metabolites during exercise in pubertal boys », *Acta Paediatr Scand Suppl*, 1971, 217: 154-157.
  - FAIGENBAUM A. D., RATAMESS N. A., MCFARLAND J., KACZMAREK J., CORAGGIO M. J., KANG J., HOFFMAN J. R., « Effect of rest interval length on bench press performance in boys, teens, and men », *Pediatr Exerc Sci*, 2008, 20(4): 457-469.
  - FALK B., DOTAN R., « Child-adult differences in the recovery from high-intensity

## L'enfant et l'activité physique

exercise », *Exerc Sport Sci Rev*, 2006, 34(3): 107-112.

- FAWKNER S., ARMSTRONG N., « Oxygen uptake kinetic response to exercise in children », *Sports Med*, 2003, 33(9): 651-669.
- FLEISCHMAN A., KRON M., SYSTROM D. M., HROVAT M. I., GRINSPOON S. K., « Mitochondrial function and insulin resistance in overweight and normal-weight children », *J Clin Endocrinol Metab*, 2009, 94(12): 4923-4930.
- FLEISCHMAN A., MAKIMURA H., STANLEY T. L., MCCARTHY M. A., KRON M., SUN N., CHUZI S., HROVAT M. I., SYSTROM D. M., GRINSPOON S. K., « Skeletal muscle phosphocreatine recovery after submaximal exercise in children and young and middle-aged adults », *J Clin Endocrinol Metab*, 2010, 95(9): E69-74.
- FOURNIER M., RICCI J., TAYLOR A. W., FERGUSON R. J., MONTPETIT R. R., CHAITMAN B. R., « Skeletal muscle adaptation in adolescent boys: sprint and endurance training and detraining », *Med Sci Sports Exerc*, 1982, 14(6): 453-456.
- GAUL C. A., DOCHERTY D., CICCHINI R., « Differences in anaerobic performance between boys and men », *Int J Sports Med*, 1995, 16(7): 451-455.
- GLENMARK B., HEDBERG G., KAIJSER L., JANSSON E., « Muscle strength from adolescence to adulthood--relationship to muscle fibre types », *Eur J Appl Physiol Occup Physiol*, 1994, 68(1): 9-19.
- GROSSET J. F., MORA I., LAMBERTZ D., PEROT C., « Voluntary activation of the triceps surae in prepubertal children », *J Electromyogr Kinesiol*, 2008, 18(3): 455-465.
- HALIN R., GERMAIN P., BERCIER S., KAPITANIAK B., BUTTELLI O., « Neuromuscular response of young boys versus men during sustained maximal contraction », *Med Sci Sports Exerc*, 2003, 35(6): 1042-1048.
- HAMADA T., SALE D. G., MACDOUGALL J. D., TARNOPOLSKY M. A., « Interaction of fibre type, potentiation and fatigue in human knee extensor muscles », *Acta Physiol Scand*, 2003, 178(2): 165-173.
- HARALAMBIE G., « Enzyme activities in skeletal muscle of 13-15 years old adolescents », *Bull Eur Physiopathol Respir*, 1982, 18(1): 65-74.
- HEBESTREIT H., MIMURA K., BAR-OR O., « Recovery of muscle power after high-intensity short-term exercise: comparing boys and men », *J Appl Physiol*, 1993, 74(6): 2875-2880.
- HULTMAN E., GREENHAFF P. L., « Skeletal muscle energy metabolism and fatigue during intense exercise in man », *Sci Prog*, 1991, 75(298 Pt 3-4): 361-370.
- JAMES C., SACCO P., JONES D. A., « Loss of power during fatigue of human leg muscles », *J Physiol*, 1995, 484 ( Pt 1): 237-246.
- JANSSON E. « Age-related fiber type changes in human skeletal muscle ». In: MAUGHAN R. J., SHIREFFS S. M., *Biochemistry of exercise IX*, Champaign, Human Kinetics, 1996, 297-307.
- KACZOR J. J., ZIOLKOWSKI W., POPINIGIS J., TARNOPOLSKY M. A., « Anaerobic and aerobic enzyme activities in human skeletal muscle from children and adults »,

Pediatr Res, 2005, 57(3): 331-335.

- KANEHISA H., OKUYAMA H., IKEGAWA S., FUKUNAGA T., « Fatigability during repetitive maximal knee extensions in 14-year-old boys », *Eur J Appl Physiol Occup Physiol*, 1995, 72(1-2): 170-174.
- KENT-BRAUN J. A., « Central and peripheral contributions to muscle fatigue in humans during sustained maximal effort », *Eur J Appl Physiol Occup Physiol*, 1999, 80(1): 57-63.
- KUNO S., TAKAHASHI H., FUJIMOTO K., AKIMA H., MIYAMARU M., NEMOTO I., ITAI Y., KATSUTA S., « Muscle metabolism during exercise using phosphorus-31 nuclear magnetic resonance spectroscopy in adolescents », *Eur J Appl Physiol Occup Physiol*, 1995, 70(4): 301-304.
- LAZAAR N., RATEL S., RUDOLF P., BEDU M., DUCHÉ P., « Performance during intermittent running exercise: effect of age and recovery duration », *Hum Biol Anthropol*, 2002, 20: 29-34.
- LEXELL J., SJOSTROM M., NORDLUND A. S., TAYLOR C. C., « Growth and development of human muscle: a quantitative morphological study of whole vastus lateralis from childhood to adult age », *Muscle Nerve*, 1992, 15(3): 404-409.
- NAUGHTON G., CARLSON J., FAIRWEATHER I., « Determining the variability of performance on Wingate anaerobic tests in children aged 6-12 years », *Int J Sports Med*, 1992, 13(7): 512-517.
- NORDLUND M. M., THORSTENSSON A., CRESSWELL A. G., « Central and peripheral contributions to fatigue in relation to level of activation during repeated maximal voluntary isometric plantar flexions », *J Appl Physiol*, 2004, 96(1): 218-225.
- O'BRIEN T. D., REEVES N. D., BALTZOPOULOS V., JONES D. A., MAGANARIS C. N., « In vivo measurements of muscle specific tension in adults and children », *Exp Physiol*, 2010, 95(1): 202-210.
- OERTEL G., « Morphometric analysis of normal skeletal muscles in infancy, childhood and adolescence. An autopsy study », *J Neurol Sci*, 1988, 88(1-3): 303-313.
- PARASCHOS I., HASSANI A., BASSA E., HATZIKOTULAS K., PATIKAS D., KOTZAMANIDIS C., « Fatigue differences between adults and prepubertal males », *Int J Sports Med*, 2007, 28(11): 958-963.
- PETERSEN S. R., GAUL C. A., STANTON M. M., HANSTOCK C. C., « Skeletal muscle metabolism during short-term, high-intensity exercise in prepubertal and pubertal girls », *J Appl Physiol*, 1999, 87(6): 2151-2156.
- RATEL S., BEDU M., HENNEGRAVE A., DORE E., DUCHE P., « Effects of age and recovery duration on peak power output during repeated cycling sprints », *Int J Sports Med*, 2002a, 23(6): 397-402.
- RATEL S., DUCHE P., HENNEGRAVE A., VAN PRAAGH E., BEDU M., « Acid-base balance during repeated cycling sprints in boys and men », *J Appl Physiol*, 2002b, 92(2): 479-485.

## L'enfant et l'activité physique

- RATEL S., DUCHE P., WILLIAMS C. A., « Muscle fatigue during high-intensity exercise in children », *Sports Med*, 2006a, 36(12): 1031-1065.
- RATEL S., LAZAAR N., DORE E., BAQUET G., WILLIAMS C. A., BERTHOIN S., VAN PRAAGH E., BEDU M., DUCHE P., « High-intensity intermittent activities at school: controversies and facts », *J Sports Med Phys Fitness*, 2004a, 44(3): 272-280.
- RATEL S., TONSON A., LE FUR Y., COZZONE P., BENDAHAN D., « Comparative analysis of skeletal muscle oxidative capacity in children and adults: a 31P-MRS study », *Appl Physiol Nutr Metab*, 2008, 33(4): 720-727.
- RATEL S., WILLIAMS C. A., OLIVER J., ARMSTRONG N., « Effects of age and mode of exercise on power output profiles during repeated sprints », *Eur J Appl Physiol*, 2004b, 92(1-2): 204-210.
- RATEL S., WILLIAMS C. A., OLIVER J., ARMSTRONG N., « Effects of age and recovery duration on performance during multiple treadmill sprints », *Int J Sports Med*, 2006b, 27(1): 1-8.
- SAHLIN K., « Metabolic factors in fatigue », *Sports Med*, 1992, 13(2): 99-107.
- SAHLIN K., TONKONOGI M., SODERLUND K., « Energy supply and muscle fatigue in humans », *Acta Physiol Scand*, 1998, 162(3): 261-266.
- SARGEANT A. J., « Human power output and muscle fatigue », *Int J Sports Med*, 1994, 15(3): 116-121.
- SCHILLINGS M. L., HOEFSLOOT W., STEGEMAN D. F., ZWARTS M. J., « Relative contributions of central and peripheral factors to fatigue during a maximal sustained effort », *Eur J Appl Physiol*, 2003, 90(5-6): 562-568.
- SOARES J. M. C., MOTA P., DUARTE J. A., APPELL H. J., « Children are less susceptible to exercise-induced muscle damage than adults: a preliminary investigation », *Pediatr Exerc Sci*, 1996, 8: 361-367.
- STRECKIS V., SKURVYDAS A., RATKEVICIUS A., « Children are more susceptible to central fatigue than adults », *Muscle Nerve*, 2007, 36(3): 357-363.
- TAMAKI N., « Effect of growth on muscle capillarity and fiber type composition in rat diaphragm », *Eur J Appl Physiol Occup Physiol*, 1985, 54(1): 24-29.
- TAYLOR D. J., KEMP G. J., THOMPSON C. H., RADDA G. K., « Ageing: effects on oxidative function of skeletal muscle in vivo », *Mol Cell Biochem*, 1997, 174(1-2): 321-324.
- THOMAS C., PERREY S., LAMBERT K., HUGON G., MORNET D., MERCIER J., « Monocarboxylate transporters, blood lactate removal after supramaximal exercise, and fatigue indexes in humans », *J Appl Physiol*, 2005, 98(3): 804-809.
- THOMAS C., SIRVENT P., PERREY S., RAYNAUD E., MERCIER J., « Relationships between maximal muscle oxidative capacity and blood lactate removal after supramaximal exercise and fatigue indexes in humans », *J Appl Physiol*, 2004, 97(6): 2132-2138.
- TONSON A., RATEL S., LE FUR Y., VILMEN C., COZZONE P. J., BENDAHAN D.,

- « Muscle energetics changes throughout maturation: a quantitative 31P-MRS analysis », *J Appl Physiol*, 2010, 109(6): 1769-1778.
- VAN PRAAGH E., DORE E., « Short-term muscle power during growth and maturation », *Sports Med*, 2002, 32(11): 701-728.
  - VOLLESTAD N. K., « Measurement of human muscle fatigue », *J Neurosci Methods*, 1997, 74(2): 219-227.
  - YAMADA H., KANEKO K., MASUDA T., « Effects of voluntary activation on neuromuscular endurance analyzed by surface electromyography », *Percept Mot Skills*, 2002, 95(2): 613-619.
  - YANAGIYA T., KANEHISA H., KOUZAKI M., KAWAKAMI Y., FUKUNAGA T., « Effect of gender on mechanical power output during repeated bouts of maximal running in trained teenagers », *Int J Sports Med*, 2003, 24(4): 304-310.
  - ZAFEIRIDIS A., DALAMITROS A., DIPLA K., MANOU V., GALANIS N., KELLIS S., « Recovery during high-intensity intermittent anaerobic exercise in boys, teens, and men », *Med Sci Sports Exerc*, 2005, 37(3): 505-512.
  - ZAFEIRIDIS A., THEOU O., MANOU V., BILLIS E., DALAMITROS A., KELLIS E., « Fatigue during high intensity intermittent “anaerobic” exercise in preteen, teen, and adult females », *Ninth Annual Congress European College of Sport Science*, Clermont-Ferrand, 2004, P64M13.
  - ZANCONATO S., BUCHTHAL S., BARSTOW T. J., COOPER D. M., « 31P-magnetic resonance spectroscopy of leg muscle metabolism during exercise in children and adults », *J Appl Physiol*, 1993, 74(5): 2214-2218.

## Chapitre 5

- AARON D. J., STORTI K. L., ROBERTSON R. J., KRISKA A. M., LAPORTE R. E., « Longitudinal study of the number and choice of leisure time physical activities from mid to late adolescence: implications for school curricula and community recreation programs », *Arch Pediatr Adolesc Med*, 2002, 156(11): 1075-1080.
- AINSLIE P., REILLY T., WESTERTERP K., « Estimating human energy expenditure: a review of techniques with particular reference to doubly labelled water », *Sports Med*, 2003, 33(9): 683-698.
- AMERICAN COLLEGE OF SPORTS MEDICINE, « Opinion statement on physical fitness in children and youth », *Med Sci Sports Exerc*, 1988, 20: 422-423.
- AMERICAN COLLEGE OF SPORTS MEDICINE, *ACSM's guidelines for exercise testing and prescription*, 2006.
- ANDERSEN L. B., HARRO M., SARDINHA L. B., FROBERG K., EKELUND U., BRAGE S., ANDERSSEN S. A., « Physical activity and clustered cardiovascular risk in children: a cross-sectional study (The European Youth Heart Study) », *Lancet*, 2006, 368(9532): 299-304.
- ANDERSON C. B., HAGSTROMER M., YNGVE A., « Validation of the PDPAR as an

## L'enfant et l'activité physique

- adolescent diary: effect of accelerometer cut points », *Med Sci Sports Exerc*, 2005, 37(7): 1224-1230.
- BAILEY R. C., OLSON J., PEPPER S. L., PORSZASZ J., BARSTOW T. J., COOPER D. M., « The level and tempo of children's physical activities: an observational study », *Med Sci Sports Exerc*, 1995, 27(7): 1033-1041.
  - BAQUET G., STRATTON G., VAN PRAAGH E., BERTHOIN S., « Improving physical activity assessment in prepubertal children with high-frequency accelerometry monitoring: a methodological issue », *Prev Med*, 2007, 44(2): 143-147.
  - BARANOWSKI T., DE MOOR C., « How many days was that? Intra-individual variability and physical activity assessment », *Res Q Exerc Sport*, 2000, 71(2 Suppl): S74-78.
  - BERMAN N., BAILEY R. C., BARSTOW T. J., COPPER D. M., « Spectral and bout detection analysis of physical activity patterns in healthy prepubertal boys and girls », *Am J Hum Biol*, 1998, 10: 289-297.
  - BIDDLE S. J., GORELY T., STENSEL D. J., « Health-enhancing physical activity and sedentary behaviour in children and adolescents », *J Sports Sci*, 2004, 22(8): 679-701.
  - BLAIR S. N., CONNELLY J. C., « How much physical activity should we do? The case for moderate amounts and intensities of physical activity », *Res Q Exerc Sport*, 1996, 67(2): 193-205.
  - BRAGE S., BRAGE N., WEDDERKOPP N., FROBERG K., « Reliability and validity of the computer science and applications accelerometer in a mechanical setting », *Measur Physical Edu Exer Sci*, 2003, 7: 101-119.
  - BRATTEBY L. E., SANDHAGEN B., LOTBORN M., SAMUELSON G., « Daily energy expenditure and physical activity assessed by an activity diary in 374 randomly selected 15-year-old adolescents », *Eur J Clin Nutr*, 1997, 51(9): 592-600.
  - BRUCH H., *Eating Disorders: Obesity, Anorexia Nervosa, and the Person Within*, 1973.
  - BURDETTE H. L., WHITAKER R. C., « Resurrecting free play in young children: looking beyond fitness and fatness to attention, affiliation, and affect », *Arch Pediatr Adolesc Med*, 2005, 159(1): 46-50.
  - CAIN K. L., SALLIS J. F., CONWAY T. L., VAN DYCK D., CALHOON L., « Using accelerometers in youth physical activity studies: a review of methods », *J Phys Act Health*, 2013, 10(3): 437-450.
  - CASPERSEN C. J., PEREIRA M. A., CURRAN K. M., « Changes in physical activity patterns in the United States, by sex and cross-sectional age », *Med Sci Sports Exerc*, 2000, 32(9): 1601-1609.
  - CASPERSEN C. J., POWELL K. E., CHRISTENSON G. M., « Physical activity, exercise, and physical fitness: definitions and distinctions for health-related research », *Public Health Rep*, 1985, 100(2): 126-131.
  - CAVILL N., BIDDLE S., SALLIS J. F., « Health enhancing physical activity for young people: statement of the United Kingdom expert consensus conference », *Pediatr Exerc Sci*, 2001, 13: 12-25.

- CHINAPAW M. J., MOKKINK L. B., VAN POPPEL M. N., VAN MECHELEN W., TERWEE C. B., « Physical activity questionnaires for youth: a systematic review of measurement properties », *Sports Med*, 2010, 40(7): 539-563.
- CLEMES S. A., BIDDLE S. J., « The use of pedometers for monitoring physical activity in children and adolescents: measurement considerations », *J Phys Act Health*, 2013, 10(2): 249-262.
- CLIFF D. P., OKELY A. D., SMITH L. M., MCKEEN K., « Relationships between fundamental movement skills and objectively measured physical activity in preschool children », *Pediatr Exerc Sci*, 2009, 21(4): 436-449.
- COHEN D. A., SETODJI C., EVENSON K. R., WARD P., LAPHAM S., HILLIER A., MCKENZIE T. L., « How much observation is enough? Refining the administration of SOPARC », *J Phys Act Health*, 2011, 8(8): 1117-1123.
- COLWELL M. J., LINDSEY E. W., « Preschool Children's Pretend and Physical Play and Sex of Play Partner: Connections to Peer Competence », *Sex Roles*, 2005, 52(7-8): 497-509.
- COOMBES E., VAN SLUIJS E., JONES A., « Is environmental setting associated with the intensity and duration of children's physical activity? Findings from the SPEEDY GPS study », *Health Place*, 2013, 20: 62-65.
- COOPER A. R., PAGE A. S., WHEELER B. W., GRIEW P., DAVIS L., HILLSDON M., JAGO R., « Mapping the walk to school using accelerometry combined with a global positioning system », *Am J Prev Med*, 2010a, 38(2): 178-183.
- COOPER A. R., PAGE A. S., WHEELER B. W., HILLSDON M., GRIEW P., JAGO R., « Patterns of GPS measured time outdoors after school and objective physical activity in English children: the PEACH project », *Int J Behav Nutr Phys Act*, 2010b, 7: 31.
- CORDER K., BRAGE S., WAREHAM N. J., EKELUND U., « Comparison of PAEE from combined and separate heart rate and movement models in children », *Med Sci Sports Exerc*, 2005, 37(10): 1761-1767.
- DE BOCK F., MENZE J., BECKER S., LITAKER D., FISCHER J., SEIDEL I., « Combining accelerometry and HR for assessing preschoolers' physical activity », *Med Sci Sports Exerc*, 2010, 42(12): 2237-2243.
- DOLLMAN J., NORTON K., NORTON L., « Evidence for secular trends in children's physical activity behaviour », *Br J Sports Med*, 2005, 39(12): 892-897; discussion 897.
- DUNCAN J. S., BADLAND H. M., SCHOFIELD G., « Combining GPS with heart rate monitoring to measure physical activity in children: A feasibility study », *J Sci Med Sport*, 2009, 12(5): 583-585.
- DUNCAN M. J., MUMMERY W. K., « GIS or GPS? A comparison of two methods for assessing route taken during active transport », *Am J Prev Med*, 2007, 33(1): 51-53.
- DURNIN J. « Physical activity levels past and present » *Physical activity and health*, Cambridge, 1992, 20-27.
- EDWARDSON C. L., GORELY T., « Epoch length and its effect on physical activity

## L'enfant et l'activité physique

- intensity », *Med Sci Sports Exerc*, 2010, 42(5): 928-934.
- EISENMANN J. C., WICKEL E. E., « Moving on land: an explanation of pedometer counts in children », *Eur J Appl Physiol*, 2005, 93(4): 440-446.
  - EKELUND U., POORTVLIET E., YNGVE A., HURTIG-WENNLOV A., NILSSON A., SJOSTROM M., « Heart rate as an indicator of the intensity of physical activity in human adolescents », *Eur J Appl Physiol*, 2001a, 85(3-4): 244-249.
  - EKELUND U., SJOSTROM M., YNGVE A., POORTVLIET E., NILSSON A., FROBERG K., WEDDERKOPP N., WESTERTERP K., « Physical activity assessed by activity monitor and doubly labeled water in children », *Med Sci Sports Exerc*, 2001b, 33(2): 275-281.
  - EPSTEIN L. H., GOLDFIELD G. S., « Physical activity in the treatment of childhood overweight and obesity: current evidence and research issues », *Med Sci Sports Exerc*, 1999, 31(11 Suppl): S553-559.
  - EPSTEIN L. H., ROEMMICH J. N., « Reducing sedentary behavior: role in modifying physical activity », *Exerc Sport Sci Rev*, 2001, 29(3): 103-108.
  - ESTON R. G., ROWLANDS A. V., INGLEDEW D. K., « Validity of heart rate, pedometry, and accelerometry for predicting the energy cost of children's activities », *J Appl Physiol*, 1998, 84(1): 362-371.
  - EUROPEAN WORKING GROUP, *Sport and Health. EU physical activity guidelines. Recommended policy actions in support health-enhancing physical activity*, EU commission, 2008.
  - EVENSON K. R., CATELLIER D. J., GILL K., ONDRAK K. S., MCMURRAY R. G., « Calibration of two objective measures of physical activity for children », *J Sports Sci*, 2008, 26(14): 1557-1565.
  - FALGAIRETTE G., GAVARRY O., BERNARD T., HEBBELINCK M., « Evaluation of habitual physical activity from a week's heart rate monitoring in French school children », *Eur J Appl Physiol Occup Physiol*, 1996, 74(1-2): 153-161.
  - FISHER A., REILLY J. J., KELLY L. A., MONTGOMERY C., WILLIAMSON A., PATON J. Y., GRANT S., « Fundamental movement skills and habitual physical activity in young children », *Med Sci Sports Exerc*, 2005, 37(4): 684-688.
  - FREEDSON P., POBER D., JANZ K. F., « Calibration of accelerometer output for children », *Med Sci Sports Exerc*, 2005, 37(11 Suppl): S523-530.
  - GAVARRY O., GIACOMONI M., BERNARD T., SEYMAT M., FALGAIRETTE G., « Habitual physical activity in children and adolescents during school and free days », *Med Sci Sports Exerc*, 2003, 35(3): 525-531.
  - GORDON-LARSEN P., NELSON M. C., POPKIN B. M., « Longitudinal physical activity and sedentary behavior trends: adolescence to adulthood », *Am J Prev Med*, 2004, 27(4): 277-283.
  - HASKELL W. L., « What to look for in assessing responsiveness to exercise in a health context », *Med Sci Sports Exerc*, 2001, 33(6 Suppl): S454-458; discussion S493-454.
  - HOOS M. B., GERVER W. J., KESTER A. D., WESTERTERP K. R., « Physical activity levels

- in children and adolescents », *Int J Obes Relat Metab Disord*, 2003, 27(5): 605-609.
- IANNOTTI R. J., CLAYTOR R. P., HORN T. S., CHEN R., « Heart rate monitoring as a measure of physical activity in children », *Med Sci Sports Exerc*, 2004, 36(11): 1964-1971.
  - JAGO R., WATSON K., BARANOWSKI T., ZAKERI I., YOO S., BARANOWSKI J., CONRY K., « Pedometer reliability, validity and daily activity targets among 10- to 15-year-old boys », *J Sports Sci*, 2006, 24(3): 241-251.
  - JANSSEN I., « Physical activity guidelines for children and youth », *Can J Public Health*, 2007, 98 Suppl 2: S109-121.
  - JANZ K. F., « Validation of the CSA accelerometer for assessing children's physical activity », *Med Sci Sports Exerc*, 1994, 26(3): 369-375.
  - JANZ K. F., BURNS T. L., LEVY S. M., IOWA BONE DEVELOPMENT S., « Tracking of activity and sedentary behaviors in childhood: the Iowa Bone Development Study », *Am J Prev Med*, 2005, 29(3): 171-178.
  - JANZ K. F., GOLDEN J. C., HANSEN J. R., MAHONEY L. T., « Heart rate monitoring of physical activity in children and adolescents: the Muscatine Study », *Pediatrics*, 1992, 89(2): 256-261.
  - KELLY L. A., REILLY J. J., BARRIE S., PATON J. Y., GRANT S., FAIRWEATHER S. C., « Comparison of two accelerometers for assessment of physical activity in preschool children », *Pediatr Exerc Sci*, 2004, 16(4): 324-333.
  - KIMM S. Y., GLYNN N. W., KRISKA A. M., FITZGERALD S. L., AARON D. J., SIMILO S. L., MCMAHON R. P., BARTON B. A., « Longitudinal changes in physical activity in a biracial cohort during adolescence », *Med Sci Sports Exerc*, 2000, 32(8): 1445-1454.
  - KRENN P. J., TITZE S., OJA P., JONES A., OGILVIE D., « Use of global positioning systems to study physical activity and the environment: a systematic review », *Am J Prev Med*, 2011, 41(5): 508-515.
  - KRISTENSEN P. L., MOLLER N. C., KORSHOLM L., WEDDERKOPP N., ANDERSEN L. B., FROBERG K., « Tracking of objectively measured physical activity from childhood to adolescence: the European youth heart study », *Scand J Med Sci Sports*, 2008, 18(2): 171-178.
  - LEE I. M., « Dose-response relation between physical activity and fitness: even a little is good; more is better », *JAMA*, 2007, 297(19): 2137-2139.
  - LEE I. M., SKERRETT P. J., « Physical activity and all-cause mortality: what is the dose-response relation? », *Med Sci Sports Exerc*, 2001, 33(6 Suppl): S459-471; discussion S493-454.
  - LINDSEY E. W., CALDERA Y., COLWELL M., « Correlates of Coparenting During Infancy », *Family Relations*, 2005, 54(3): 346-359.
  - LOUIE L., ESTON R. G., ROWLANDS A. V., TONY K. K., INGLEDEW D. K., FU F. H., « Validity of heart rate, pedometry, and accelerometry for estimating the energy cost of activity in Hong Kong Chinese boys », *Pediatr Exerc Sci*, 1999, 11(3): 229-239.

## L'enfant et l'activité physique

- MAFFEIS C., PINELLI L., ZAFFANELLO M., SCHENA F., IACUMIN P., SCHUTZ Y., « Daily energy expenditure in free-living conditions in obese and non-obese children: comparison of doubly labelled water ( $^{2}H_2(18)O$ ) method and heart-rate monitoring », *Int J Obes Relat Metab Disord*, 1995, 19(9): 671-677.
- MARSHALL S. J., BIDDLE S. J. H., SALLIS J. F., MCKENZIE T. L., CONWAY T. L., « Clustering of sedentary behaviours and physical activity among youth : a cross-national study », *Pediatr Exerc Sci*, 2002, 14: 401-417.
- MATTOCKS C., LEARY S., NESS A., DEERE K., SAUNDERS J., TILLING K., KIRKBY J., BLAIR S. N., RIDDOCH C., « Calibration of an accelerometer during free-living activities in children », *Int J Pediatr Obes*, 2007, 2(4): 218-226.
- MCKENZIE T. L., MARSHALL S. J., SALLIS J. F., CONWAY T. L., « Student activity levels, lesson context, and teacher behavior during middle school physical education », *Res Q Exerc Sport*, 2000, 71(3): 249-259.
- MCKENZIE T. L., SALLIS J. F., NADER P. R., « SOFIT: System for observing fitness instruction time », *Journal of Teaching in Physical Education*, 1991, 11: 195-205.
- MCMURRAY R. G., RING K. B., TREUTH M. S., WELK G. J., PATE R. R., SCHMITZ K. H., PICKREL J. L., GONZALEZ V., ALMEDIA M. J., YOUNG D. R., SALLIS J. F., « Comparison of two approaches to structured physical activity surveys for adolescents », *Med Sci Sports Exerc*, 2004, 36(12): 2135-2143.
- NILSSON A., EKELUND U., YNGVE A., SJOSTROM M., « Assessing physical activity among children with accelerometers using differents time sampling intervals and placements », *Pediatr Exerc Sci*, 2002, 14(1): 87-96.
- NORMAN A., BELLOCCHI R., VAIDA F., WOLK A., « Age and temporal trends of total physical activity in Swedish men », *Med Sci Sports Exerc*, 2003, 35(4): 617-622.
- O'HARA N. M., BARANOWSKI T., SIMONS-MORTON B. G., WILSON B. S., PARCEL G., « Validity of the observation of children's physical activity », *Res Q Exerc Sport*, 1989, 60(1): 42-47.
- PATE R. R., ALMEIDA M. J., MCIVER K. L., PFEIFFER K. A., DOWDA M., « Validation and calibration of an accelerometer in preschool children », *Obesity (Silver Spring)*, 2006, 14(11): 2000-2006.
- PATE R. R., FREEDSON P. S., SALLIS J. F., TAYLOR W. C., SIRARD J., TROST S. G., DOWDA M., « Compliance with physical activity guidelines: prevalence in a population of children and youth », *Ann Epidemiol*, 2002, 12(5): 303-308.
- PATE R. R., LONG B. J., HEALTH G., « Descriptive epidemiology of physical activity in adolescents », *Pediatr Exerc Sci*, 1994, 6: 434-447.
- PRATT M., MACERA C. A., BLANTON C., « Levels of physical activity and inactivity in children and adults in the United States: current evidence and research issues », *Med Sci Sports Exerc*, 1999, 31(11 Suppl): S526-533.
- PUHL J., GREAVES K., HOYT M., BARANOWSKI T., « Children's Activity Rating Scale (CARS): description and calibration », *Res Q Exerc Sport*, 1990, 61(1): 26-36.

- PUYAU M. R., ADOLPH A. L., VOHRA F. A., BUTTE N. F., « Validation and calibration of physical activity monitors in children », *Obes Res*, 2002, 10(3): 150-157.
- PUYAU M. R., ADOLPH A. L., VOHRA F. A., ZAKERI I., BUTTE N. F., « Prediction of activity energy expenditure using accelerometers in children », *Med Sci Sports Exerc*, 2004, 36(9): 1625-1631.
- RAINHAM D. G., BATES C. J., BLANCHARD C. M., DUMMER T. J., KIRK S. F., SHEARER C. L., « Spatial classification of youth physical activity patterns », *Am J Prev Med*, 2012, 42(5): e87-96.
- RIDDOCH C., BOREHAM C. « Physical activity, physical fitness and children's health : current concepts ». In: ARMSTRONG N., VAN MECHELEN W., *Pediatric Exercise and Medicine*, Oxford University Press, 2000, 243-252.
- RIDDOCH C. J., BO ANDERSEN L., WEDDERKOPP N., HARRO M., KLASSON-HEGGEBO L., SARDINHA L. B., COOPER A. R., EKELUND U., « Physical activity levels and patterns of 9- and 15-yr-old European children », *Med Sci Sports Exerc*, 2004, 36(1): 86-92.
- RIDGERS N. D., CARTER L. M., STRATTON G., MCKENZIE T. L., « Examining children's physical activity and play behaviors during school playtime over time », *Health Educ Res*, 2011, 26(4): 586-595.
- ROWE D. A., MAHAR M. T., RAEDEKE T. D., LORE J., MORGAN D. W., SUTIKA K. M., « Measuring physical activity in children with pedometers : reliability, reactivity, and replacement of missing data », *Pediatr Exerc Sci*, 2004, 16(4): 343-354.
- ROWLANDS A. V., ESTON R. G., « Comparison of accelerometer and pedometer measures of physical activity in boys and girls, ages 8-10 years », *Res Q Exerc Sport*, 2005, 76(3): 251-257.
- ROWLANDS A. V., THOMAS P. W., ESTON R. G., TOPPING R., « Validation of the RT3 triaxial accelerometer for the assessment of physical activity », *Med Sci Sports Exerc*, 2004, 36(3): 518-524.
- RUSSEL S. J., HYNDFORD C., BEAULIEU A., *Active living for Canadian children and youth : a statistical profile*, Canadian Fitness and Lifestyle Research Institute, 1992.
- SÄÄKSLATHI A., NUMMINEN P., SALO P., TUOMINEN J., HELENIUS H., VÄLIMÄKI I., « Effects of a three-year intervention on children's physical activity from age 4 to 7 », *Pediatr Exerc Sci*, 2004, 16: 167-180.
- SALLIS J. F., OWEN N., *Physical activity and behavioral medicine*, Sage, 1999.
- SALLIS J. F., PATRICK K., « Physical activity guidelines for adolescents : Consensus statement », *Pediatr Exerc Sci*, 1994, 6: 302-304.
- SALLIS J. F., PROCHASKA J. J., TAYLOR W. C., « A review of correlates of physical activity of children and adolescents », *Med Sci Sports Exerc*, 2000, 32(5): 963-975.
- SALLIS J. F., SAELENS B. E., « Assessment of physical activity by self-report: status, limitations, and future directions », *Res Q Exerc Sport*, 2000, 71(2 Suppl): S1-14.
- SANTOS P., GUERRA S., RIBEIRO J. C., DUARTE J. A., MOTA J., « Age and gender-re-

## L'enfant et l'activité physique

- lated physical activity. A descriptive study in children using accelerometry », *J Sports Med Phys Fitness*, 2003, 43(1): 85-89.
- SCHOFIELD W. N., « Predicting basal metabolic rate, new standards and review of previous work », *Hum Nutr Clin Nutr*, 1985, 39 Suppl 1: 5-41.
  - SCHOOLS HEALTH EDUCATION UNIT, *Trends: young people and physical activity attitudes and participation in exercise and sport 1987–2003*, 2004.
  - SIRARD J. R., PATE R. R., « Physical activity assessment in children and adolescents », *Sports Med*, 2001, 31(6): 439-454.
  - SLEAP M., TOLFREY K., « Do 9- to 12 yr-old children meet existing physical activity recommendations for health? », *Med Sci Sports Exerc*, 2001, 33(4): 591-596.
  - SLEAP M., WARBURTON P., « Physical activity levels of 5-11-year-old children in England: cumulative evidence from three direct observation studies », *Int J Sports Med*, 1996, 17(4): 248-253.
  - STRATTON G., « Children's heart rates during physical education lessons : a review », *Pediatr Exerc Sci*, 1996, 8: 215-233.
  - STRONG W. B., MALINA R. M., BLIMKIE C. J., DANIELS S. R., DISHMAN R. K., GUTIN B., HERGENROEDER A. C., MUST A., NIXON P. A., PIVARNIK J. M., ROWLAND T., TROST S., TRUDEAU F., « Evidence based physical activity for school-age youth », *J Pediatr*, 2005, 146(6): 732-737.
  - TAYLOR R. W., MURDOCH L., CARTER P., GERRARD D. F., WILLIAMS S. M., TAYLOR B. J., « Longitudinal study of physical activity and inactivity in preschoolers: the FLAME study », *Med Sci Sports Exerc*, 2009, 41(1): 96-102.
  - TEIXEIRA E SEABRA A. F., MAIA J. A., MENDONCA D. M., THOMIS M., CASPERSEN C. J., FULTON J. E., « Age and sex differences in physical activity of Portuguese adolescents », *Med Sci Sports Exerc*, 2008, 40(1): 65-70.
  - TELAMA R., YANG X., « Decline of physical activity from youth to young adulthood in Finland », *Med Sci Sports Exerc*, 2000, 32(9): 1617-1622.
  - THOMPSON A. M., CAMPAGNA P. D., REHMAN L. A., MURPHY R. J., RASMUSSEN R. L., NESS G. W., « Physical activity and body mass index in grade 3, 7, and 11 Nova Scotia students », *Med Sci Sports Exerc*, 2005, 37(11): 1902-1908.
  - TORUN B., *Energy requirements of children and adolescents. Background paper prepared for the joint FAO/WHO/UNU expert consultation on energy in human nutrition*, 2001.
  - TREMBLAY M. S., COLLEY R. C., SAUNDERS T. J., HEALY G. N., OWEN N., « Physiological and health implications of a sedentary lifestyle », *Appl Physiol Nutr Metab*, 2010, 35(6): 725-740.
  - TREUTH M. S., SCHMITZ K., CATELLIER D. J., MCMURRAY R. G., MURRAY D. M., ALMEIDA M. J., GOING S., NORMAN J. E., PATE R., « Defining accelerometer thresholds for activity intensities in adolescent girls », *Med Sci Sports Exerc*, 2004, 36(7): 1259-1266.

- TROIANO R. P., « A timely meeting: objective measurement of physical activity », *Med Sci Sports Exerc*, 2005, 37(11 Suppl): S487-489.
- TROST S. G., FEES B. S., HAAR S. J., MURRAY A. D., CROWE L. K., « Identification and validity of accelerometer cut-points for toddlers », *Obesity (Silver Spring)*, 2012, 20(11): 2317-2319.
- TROST S. G., LOPRINZI P. D., MOORE R., PFEIFFER K. A., « Comparison of accelerometer cut points for predicting activity intensity in youth », *Med Sci Sports Exerc*, 2011, 43(7): 1360-1368.
- TROST S. G., PATE R. R., FREEDSON P. S., SALLIS J. F., TAYLOR W. C., « Using objective physical activity measures with youth: how many days of monitoring are needed? », *Med Sci Sports Exerc*, 2000, 32(2): 426-431.
- TROST S. G., PATE R. R., SALLIS J. F., FREEDSON P. S., TAYLOR W. C., DOWDA M., SIRARD J., « Age and gender differences in objectively measured physical activity in youth », *Med Sci Sports Exerc*, 2002, 34(2): 350-355.
- TRUDEAU F., SHEPHARD R. J., « Contribution of school programmes to physical activity levels and attitudes in children and adults », *Sports Med*, 2005, 35(2): 89-105.
- TUDOR-LOCKE C., HAM S. A., MACERA C. A., AINSWORTH B. E., KIRTLAND K. A., REIS J. P., KIMSEY C. D., Jr., « Descriptive epidemiology of pedometer-determined physical activity », *Med Sci Sports Exerc*, 2004, 36(9): 1567-1573.
- US DEPARTMENT OF HEALTH AND HUMAN SERVICES, *Healthy People*, US Government Printing Office, 2010.
- VAN COEVERING P., HARNACK L., SCHMITZ K., FULTON J. E., GALUSKA D. A., GAO S., « Feasibility of using accelerometers to measure physical activity in young adolescents », *Med Sci Sports Exerc*, 2005, 37(5): 867-871.
- VAN MECHELEN W., TWISK J. W., POST G. B., SNEL J., KEMPER H. C., « Physical activity of young people: the Amsterdam Longitudinal Growth and Health Study », *Med Sci Sports Exerc*, 2000, 32(9): 1610-1616.
- WHO, *Global recommendations on physical activity for health*, World Health Organization (WHO), 2010.

## Chapitre 6

- ARTERO E. G., ESPANA-ROMERO V., CASTRO-PINERO J., ORTEGA F. B., SUNI J., CASTILLO-GARZON M.J., RUIZ J.R., « Reliability of field-based fitness tests in youth », *Int J Sports Med*, 2011, 32(3): 159-169.
- BABINEAU C., LÉGER L., LONG A., BOSQUET L., « Variability of maximal oxygen consumption measurements in various metabolic systems », *J Strength Cond Res*, 1999, 13: 318-324.
- BAKIRTZOGLOU P., IOANNOU P., BALIRTZOGLOU F., « Evaluation of hamstring flexibility using two different measuring instruments », *SportLogia*, 2010, 2: 28-32.
- BARANOWSKI T., BOUCHARD C., BAR-OR O., BRICKER T., HEATH G., KIMM S. Y.,

## L'enfant et l'activité physique

MALINA R., OBARZANEK E., PATE R., STRONG W. B., ET AL., « Assessment, prevalence, and cardiovascular benefits of physical activity and fitness in youth », *Med Sci Sports Exerc*, 1992, 24(6 Suppl): S237-247.

- BERGH V., SJODIN B., FORSBERG A., SVEDENHAG J., « The relationship between body mass and oxygen uptake during running in humans », *Med Sci Sports Exerc*, 1991, 23: 205-211.
- BOUCHARD C., SHEPARD R. J., STEPHENS T., SUTTON J. R., MCPHERSON B., « Exercise, fitness and health: the consensus statement », *Can J Sports Sci*, 1989, Supp 2: 213-223.
- CAHPER, *CAHPER fitness-performance II test manual*, Canadian Association for Health, Physical Education and Recreation, 1980.
- CASTRO-PINERO J., ARTERO E. G., ESPANA-ROMERO V., ORTEGA F. B., SJOSTROM M., SUNI J., RUIZ J. R., « Criterion-related validity of field-based fitness tests in youth: a systematic review », *Br J Sports Med*, 2010, 44(13): 934-943.
- CAZORLA G., *Batterie France-Eval. Mesures, Epreuves et Barèmes. Evaluation des qualités physiques des jeunes français d'âge scolaire 7-11 ans*, Secrétariat d'état auprès du premier ministre chargé de la jeunesse et des sports. Première opération octobre, 1987.
- CAZORLA G., « A propos de l'évaluation des capacités motrices. De l'itinéraire d'un concept à la réalisation d'un produit : la batterie « France-Eval » », In: *Evaluation en activité physique et en sport*, Colloque International de la Guadeloupe, 1990, 117-142.
- CAZORLA G., *Tests spécifiques d'évaluation du nageur*, Fédération Française de Natation, 1994.
- CAZORLA G., GODEMET M., *Tests spécifiques d'évaluation du rugbyman*, Fédération Française de Rugby, 1991.
- CAZORLA G., MILLET G., *Tests spécifiques d'évaluation du triathlète*, Fédération Française de Triathlon, 1996.
- CLINICPROSPORT, *Opération « Bouge...une priorité pour ta santé »*, Mutualité Française et Union Nationale de Sport Scolaire, 2009.
- CORNBLEET S. L., WOOLSEY N. B., « Assessment of hamstring muscle length in school-aged children using the sit-and-reach test and the inclinometer measure of hip joint angle », *Phys Ther*, 1996, 76(8): 850-855.
- CÔTÉ A., MASSICOTTE D., LÉGER L. « Dépense énergétique sur tapis roulant ». In: MAGNIN P., CORNU J. Y., *Médecine du sport: pratique du sport et accompagnements médicaux*, Paris, Ellipse, 1997.
- EUROFIT, *Tests européens d'aptitude physique*, 2ème édition, Conseil de l'Europe - comité pour le développement du sport, 1993.
- FALGAIRETTE G., « Évolution de la puissance maximale aérobie de l'enfance à l'âge adulte: influence de l'activité physique et sportive », *STAPS*, 1989, 10: 43-58.
- HARMAN E. A., ROSENSTEIN M. T., FRYKMAN P. N., ROSENSTEIN R. M., KRAEMER

- W.J., « Estimation of human power output from vertical jump », *J Appl Sports Sci Res*, 1991, 5: 116-120.
- HARTMAN J., IOONEY M., « Norm-Referenced and Criterion-Referenced Reliability and Validity of the back saver sit-and-Reach », *Meas Phys Educ Exerc Sci*, 2003, 7: 71-87.
  - HEYTERS C., MARIQUE T., *Le baromètre de la condition physique*, ADEPS, Direction Générale du Sport, 1994.
  - HEYTERS C., MARIQUE T., *Le baromètre de la condition physique*, ADEPS, Direction Générale du Sport, 2004.
  - HEYTERS C., MARIQUE T., *Le baromètre de la condition physique des jeunes de 8 à 12 ans*, ADEPS, Direction Générale du Sport, 2011.
  - JÜRIMÄE T., VOLBEKIENE V., JÜRIMÄE T., TOMKINSON G. R. « Changes in Eurofit test performance of Estonian and Lithuanian children and adolescents (1992-2002) ». In: TOMKINSON G. R., OLDS T. S., *Pediatric Fitness – Secular Trends and Geographic Variability*, Basel, Karger, 2007, 129-142.
  - LÉGER L., BOUCHER R., « An indirect continuous running multistage field test: the Université de Montréal Track Test », *Can J Appl Spt Sci*, 1980, 5: 77-84.
  - LÉGER L., CANTIN F., « Equivalences between the Wells and Dillon and the Cureton hip flexion tests », *CAHPER J*, 1983, 50: 10-12.
  - LEGER L. A., MERCIER D., GADOURY C., LAMBERT J., « The multistage 20 metre shuttle run test for aerobic fitness », *J Sports Sci*, 1988, 6(2): 93-101.
  - MARMIS C., MONTOYE H. J., CUNNINGHAM D. A., KOZAR A. J., « Reliability of the multi-trial items of the AAHPER youth fitness test », *Res Q*, 1969, 40(1): 240-245.
  - MATHEWS D. K., FOX E. L., *Physiological basis of physical education and athletics*, Saunders, 1976.
  - OLDS T., TOMKINSON G., LEGER L., CAZORLA G., « Worldwide variation in the performance of children and adolescents: an analysis of 109 studies of the 20-m shuttle run test in 37 countries », *J Sports Sci*, 2006, 24(10): 1025-1038.
  - ORTEGA F. B., ARTERO E. G., RUIZ J. R., ESPANA-ROMERO V., JIMENEZ-PAVON D., VICENTE-RODRIGUEZ G., MORENO L. A., MANIOS Y., BEGHIN L., OTTEVAERE C., CIARAPICA D., SARRI K., DIETRICH S., BLAIR S. N., KERSTING M., MOLNAR D., GONZALEZ-GROSS M., GUTIERREZ A., SJOSTROM M., CASTILLO M. J., STUDY H., « Physical fitness levels among European adolescents: the HELENA study », *Br J Sports Med*, 2011, 45(1): 20-29.
  - ORTEGA F. B., ARTERO E. G., RUIZ J. R., VICENTE-RODRIGUEZ G., BERGMAN P., HAGSTROMER M., OTTEVAERE C., NAGY E., KONSTA O., REY-LOPEZ J. P., POLITO A., DIETRICH S., PLADA M., BEGHIN L., MANIOS Y., SJOSTROM M., CASTILLO M. J., GROUP H. S., « Reliability of health-related physical fitness tests in European adolescents. The HELENA Study », *Int J Obes (Lond)*, 2008a, 32 Suppl 5: S49-57.
  - ORTEGA F. B., RUIZ J. R., CASTILLO M. J., SJOSTROM M., « Physical fitness in child-

## L'enfant et l'activité physique

hood and adolescence: a powerful marker of health », *Int J Obes (Lond)*, 2008b, 32(1): 1-11.

- PATE R. R., SHEPARD R. J. « Characteristics of physical fitness in youth ». In: GISOLFI C. V., LAMB D. R., *Perspectives in Exercise Science and Sports Medicine. Vol 2. Youth, Exercise, and Sport*, Indianapolis, Benchmark, 1989, 1-45.
- PAYNE N., GLEDHILL N., KATZMARZYK P. T., JAMNIK V., FERGUSON S., « Health implications of musculoskeletal fitness », *Can J Appl Physiol*, 2000, 25(2): 114-126.
- RUIZ J. R., ORTEGA F. B., RIZZO N. S., VILLA I., HURTIG-WENNLOF A., OJA L., SJOSTROM M., « High cardiovascular fitness is associated with low metabolic risk score in children: the European Youth Heart Study », *Pediatr Res*, 2007, 61(3): 350-355.
- SAFRIT M. J., « The validity and reliability of fitness tests for children : a review », *Pediatr Exerc Sci*, 1990, 2: c-28.
- TOMKINSON G. R., LÉGER L. A., OLDS T. S., CAZORLA G., « Secular changes in the performance of children and adolescents (1980-2000) : an analysis of 55 studies of the 20 m shuttle run in 11 countries », *Sports Med*, 2003, 33: 285-300.
- TOMKINSON G. R., OLDS T. S., *Pediatric Fitness – Secular Trends and Geographic Variability*, Karger, 2007.
- WELSMAN J. R., ARMSTRONG N. « Scaling for size: Relevance to understanding the effects of growth on performance ». In: HEBESTREIT H., BAR-OR O., *Encyclopaedia of Sports Medicine: The Young Athlete*, Oxford, Blackwell, 2007, 435-476.
- WIND A. E., TAKKEN T., HELDERS P. J., ENGELBERT R. H., « Is grip strength a predictor for total muscle strength in healthy children, adolescents, and young adults? », *Eur J Pediatr*, 2010, 169(3): 281-287.
- Chap. 6, section 10.4 : enregistrement du test (distribution exclusive : <http://www.cress-sport.com/>)
- Chap. 6, section 11 : un logiciel téléchargeable gratuitement permet de réaliser ces barèmes (<https://www.dropbox.com/sh/samdj0jaq9nnwgl/1R2uyvLHNu>).
- Chap. 6, tableaux 7 et 8 : pour obtenir le barème sur 20 et avec la feuille de calcul excel mise à disposition (<https://www.dropbox.com/sh/samdj0jaq9nnwgl/1R2uyvLHNu>),

## Chapitre 7

- AMERICAN ACADEMY OF PEDIATRICS COUNCIL ON SPORTS M., FITNESS, MCCAMBRIDGE T. M., STRICKER P. R., « Strength training by children and adolescents », *Pediatrics*, 2008, 121(4): 835-840.
- AMERICAN COLLEGE OF SPORTS MEDICINE, ACSM's *Guidelines for Exercise Testing and Prescription*, 2006.
- BASS S., BRADNEY M., PEARCE G., HENDRICH E., INGE K., STUCKEY S., LO S. K., SEEMAN E., « Short stature and delayed puberty in gymnasts: influence of selection

bias on leg length and the duration of training on trunk length », *J Pediatr*, 2000, 136(2): 149-155.

- BEHM D. G., FAIGENBAUM A. D., FALK B., KLENTROU P., « Canadian Society for Exercise Physiology position paper: resistance training in children and adolescents », *Appl Physiol Nutr Metab*, 2008, 33(3): 547-561.
- BLIMKIE C. « Age- and sex-associated variation in strength during childhood: Anthropometric, morphologic, neurological, biomechanical, endocrinologic, genetic and physical activity correlates ». In: GISOLFI C., LAMB D., *Perspectives in Exercise Science and Sports*, Indianapolis, Benchmark, 1989, 99-163.
- BLIMKIE C., MARTIN J., RAMSAY J., SALE D., MACDOUGALL D., « The effects of detraining and maintenance weight training on strength development in prepubertal boys », *Can J Sports Sci*, 1989, 14: 102P.
- BLIMKIE C. J., « Resistance training during preadolescence. Issues and controversies », *Sports Med*, 1993, 15(6): 389-407.
- CAINE D., LEWIS R., O'CONNOR P., HOWE W., BASS S., « Does gymnastics training inhibit growth of females? », *Clin J Sport Med*, 2001, 11(4): 260-270.
- CHRISTOU M., SMILIOS I., SOTIROPOULOS K., VOLAKLIS K., PILIANIDIS T., TOKMAKIDIS S. P., « Effects of resistance training on the physical capacities of adolescent soccer players », *J Strength Cond Res*, 2006, 20(4): 783-791.
- DAMSGAARD R., BENCKE J., MATTHIESSEN G., PETERSEN J. H., MULLER J., « Is prepubertal growth adversely affected by sport? », *Med Sci Sports Exerc*, 2000, 32(10): 1698-1703.
- DERENNE C., HETZLER R., BUXTON B., HO K., « Effects of training frequency on strength maintenance in pubescent baseball players », *J Strength Cond Res*, 1996, 10: 8-14.
- DIALLO O., DORE E., DUCHE P., VAN PRAAGH E., « Effects of plyometric training followed by a reduced training programme on physical performance in prepubescent soccer players », *J Sports Med Phys Fitness*, 2001, 41(3): 342-348.
- DOCHERTY D., WENGER H. A., COLLIS M. L., « The effects of resistance training on aerobic and anaerobic power of young boys », *Med Sci Sports Exerc*, 1987, 19(4): 389-392.
- FAIGENBAUM A. D., « Strength training for children and adolescents », *Clin Sports Med*, 2000, 19(4): 593-619.
- FAIGENBAUM A. D., BELLUCCI M., BERNIERI A., BAKKER B., HOORENS K., « Acute effects of different warm-up protocols on fitness performance in children », *J Strength Cond Res*, 2005, 19(2): 376-381.
- FAIGENBAUM A. D., KANG J., MCFARLAND J., BLOOM J., MAGNATTI J., RATAMESS N., HOFFMAN J., « Acute effects of different warm-up protocols on anaerobic performance in teenage athletes », *Pediatr Exerc Sci*, 2006, 17: 6475(
- FAIGENBAUM A. D., KRAEMER W. J., BLIMKIE C. J., JEFFREYS I., MICHELI L. J., NITKA

## L'enfant et l'activité physique

M., ROWLAND T. W., « Youth resistance training: updated position statement paper from the national strength and conditioning association », *J Strength Cond Res*, 2009, 23(5 Suppl): S60-79.

- FAIGENBAUM A. D., LOUD R. L., O'CONNELL J., GLOVER S., O'CONNELL J., WESTCOTT W. L., « Effects of different resistance training protocols on upper-body strength and endurance development in children », *J Strength Cond Res*, 2001, 15(4): 459-465.
- FAIGENBAUM A. D., MILLIKEN L. A., LOUD R. L., BURAK B. T., DOHERTY C. L., WESTCOTT W. L., « Comparison of 1 and 2 days per week of strength training in children », *Res Q Exerc Sport*, 2002, 73(4): 416-424.
- FAIGENBAUM A. D., MILLIKEN L. A., WESTCOTT W. L., « Maximal strength testing in healthy children », *J Strength Cond Res*, 2003, 17(1): 162-166.
- FAIGENBAUM A. D., MYER G. D., « Resistance training among young athletes: safety, efficacy and injury prevention effects », *Br J Sports Med*, 2010, 44(1): 56-63.
- FAIGENBAUM A. D., WESTCOTT W. L., LOUD R. L., LONG C., « The effects of different resistance training protocols on muscular strength and endurance development in children », *Pediatrics*, 1999, 104(1): e5.
- FAIGENBAUM A. D., WESTCOTT W. L., MICHELI L. J., OUTERBRIDGE A. R., LONG C. J., LAROSA-LOUD R., ZAICHKOWSKY L. D., « The effects of strength training and detraining on children », *J Strength Cond Res*, 1996, 10: 109-114.
- FALK B., ELIAKIM A., « Resistance training, skeletal muscle and growth », *Pediatr Endocrinol Rev*, 2003, 1(2): 120-127.
- FALK B., TENENBAUM G., « The effectiveness of resistance training in children. A meta-analysis », *Sports Med*, 1996, 22(3): 176-186.
- FOLLAND J. P., WILLIAMS A. G., « The adaptations to strength training : morphological and neurological contributions to increased strength », *Sports Med*, 2007, 37(2): 145-168.
- FUKUNAGA T., FUNATO K., IKEGAWA S., « The effects of resistance training on muscle area and strength in prepubescent age », *Ann Physiol Anthropol*, 1992, 11(3): 357-364.
- GABRIEL D. A., KAMEN G., FROST G., « Neural adaptations to resistive exercise: mechanisms and recommendations for training practices », *Sports Med*, 2006, 36(2): 133-149.
- GRANACHER U., GOESELE A., ROGGO K., WISCHER T., FISCHER S., ZUERNY C., GOLLHOFER A., KRIEMLER S., « Effects and mechanisms of strength training in children », *Int J Sports Med*, 2011, 32(5): 357-364.
- GUY J. A., MICHELI L. J., « Strength training for children and adolescents », *J Am Acad Orthop Surg*, 2001, 9(1): 29-36.
- HASS C. J., FEIGENBAUM M. S., FRANKLIN B. A., « Prescription of resistance training for healthy populations », *Sports Med*, 2001, 31(14): 953-964.

- INGLE L., SLEAP M., TOLFREY K., « The effect of a complex training and detraining programme on selected strength and power variables in early pubertal boys », *J Sports Sci*, 2006, 24(9): 987-997.
- LILLEGARD W. A., BROWN E. W., WILSON D. J., HENDERSON R., LEWIS E., « Efficacy of strength training in prepubescent to early postpubescent males and females: effects of gender and maturity », *Pediatr Rehabil*, 1997, 1(3): 147-157.
- MALINA R. M., « Weight training in youth-growth, maturation, and safety: an evidence-based review », *Clin J Sport Med*, 2006, 16(6): 478-487.
- MERSCH F., STOBOY H. « Strength training and muscle hypertrophy in children ». In: OSEID S., CARLSEN K., *Children and Exercise XIII*, Champaign, Human Kinetics, 1989, 165-182.
- MOUNTJOY M., ARMSTRONG N., BIZZINI L., BLIMKIE C., EVANS J., GERRARD D., HANGEN J., KNOLL K., MICHELI L., SANGENIS P., VAN MECHELEN W., « IOC consensus statement: "training the elite child athlete" », *Br J Sports Med*, 2008, 42(3): 163-164.
- MUJICA I., PADILLA S., « Detraining: loss of training-induced physiological and performance adaptations. Part I: short term insufficient training stimulus », *Sports Med*, 2000, 30(2): 79-87.
- MUJICA I., PADILLA S., « Muscular characteristics of detraining in humans », *Med Sci Sports Exerc*, 2001, 33(8): 1297-1303.
- MYER G. D., QUATMAN C. E., KHOURY J., WALL E. J., HEWETT T. E., « Youth versus adult "weightlifting" injuries presenting to United States emergency rooms: accidental versus nonaccidental injury mechanisms », *J Strength Cond Res*, 2009, 23(7): 2054-2060.
- OZMUN J. C., MIKESKY A. E., SURBURG P. R., « Neuromuscular adaptations following prepubescent strength training », *Med Sci Sports Exerc*, 1994, 26(4): 510-514.
- RAMSAY J. A., BLIMKIE C. J., SMITH K., GARNER S., MACDOUGALL J. D., SALE D. G., « Strength training effects in prepubescent boys », *Med Sci Sports Exerc*, 1990, 22(5): 605-614.
- SADRES E., ELIAKIM A., CONSTANTINI N., LIDOR R., FALK B., « The effect of long-term resistance training on anthropometric measures, muscle strength, and self concept in pre-pubertal boys », *Pediatr Exerc Sci*, 2001, 13: 357-372.
- SEWALL L., MICHELI L. J., « Strength training for children », *J Pediatr Orthop*, 1986, 6(2): 143-146.
- TONSON A., RATEL S., LE FUR Y., COZZONE P., BENDAHAN D., « Effect of maturation on the relationship between muscle size and force production », *Med Sci Sports Exerc*, 2008, 40(5): 918-925.
- TSOLAKIS C. K., VAGENAS G. K., DESSYPRIS A. G., « Strength adaptations and hormonal responses to resistance training and detraining in preadolescent males », *J Strength Cond Res*, 2004, 18(3): 625-629.
- VRIJENS F., « Muscle strength development in the pre- and post-pubescent age »,

## L'enfant et l'activité physique

*Med Sport*, 1978, 11: 244-246.

- WEBB D. R., « Strength training in children and adolescents », *Pediatr Clin North Am*, 1990, 37(5): 1187-1210.
- WELTMAN A., JANNEY C., RIANS C. B., STRAND K., BERG B., TIPPITT S., WISE J., CAHILL B. R., KATCH F. I., « The effects of hydraulic resistance strength training in pre-pubertal males », *Med Sci Sports Exerc*, 1986, 18(6): 629-638.

## Chapitre 8

- BAILEY R. C., OLSON J., PEPPER S. L., PORSZASZ J., BARSTOW T. J., COOPER D. M., « The level and tempo of children's physical activities: an observational study », *Med Sci Sports Exerc*, 1995, 27(7): 1033-1041.
- BALSOM P. D., SEGER J. Y., SJODIN B., EKBLOM B., « Maximal-intensity intermittent exercise: effect of recovery duration », *Int J Sports Med*, 1992, 13(7): 528-533.
- BAQUET G., BERTHOIN S., DUPONT G., BLONDEL N., FABRE C., VAN PRAAGH E., « Effects of high intensity intermittent training on peak VO<sub>2</sub> in prepubertal children », *Int J Sports Med*, 2002, 23(6): 439-444.
- BAQUET G., GAMELIN F. X., MUCCI P., THEVENET D., VAN PRAAGH E., BERTHOIN S., « Continuous vs. interval aerobic training in 8- to 11-year-old children », *J Strength Cond Res*, 2010, 24(5): 1381-1388.
- BAR-OR O., « The young athlete: some physiological considerations », *J Sports Sci*, 1995, 13: 31-33.
- BENCKE J., DAMSGAARD R., SAEKMOSE A., JORGENSEN P., JORGENSEN K., KLAUSEN K., « Anaerobic power and muscle strength characteristics of 11 years old elite and non-elite boys and girls from gymnastics, team handball, tennis and swimming », *Scand J Med Sci Sports*, 2002, 12(3): 171-178.
- BERTHOIN S., MANTECA F., GERBEAUX M., LENSEL-CORBEIL G., « Effect of a 12-week training programme on Maximal Aerobic Speed (MAS) and running time to exhaustion at 100% of MAS for students aged 14 to 17 years », *J Sports Med Phys Fitness*, 1995, 35(4): 251-256.
- BOGDANIS G. C., NEVILL M. E., LAKOMY H. K., BOOBIS L. H., « Power output and muscle metabolism during and following recovery from 10 and 20 s of maximal sprint exercise in humans », *Acta Physiol Scand*, 1998, 163(3): 261-272.
- BOREL B., LECLAIR E., THEVENET D., BEGHIN L., BERTHOIN S., FABRE C., « Correspondences between continuous and intermittent exercises intensities in healthy prepubescent children », *Eur J Appl Physiol*, 2010, 108(5): 977-985.
- BRICOUT V. A., « Développement de l'enfant. Quelle prise en compte en EPS ? », *Revue EPS*, 2009, 337: 1-4.
- BROOKS G. A., MERCIER J., « Balance of carbohydrate and lipid utilization during exercise: the "crossover" concept », *J Appl Physiol*, 1994, 76(6): 2253-2261.
- BURGOMASTER K. A., CERMAK N. M., PHILLIPS S. M., BENTON C. R., BONEN

- A., GIBLALA M. J., « Divergent response of metabolite transport proteins in human skeletal muscle after sprint interval training and detraining », *Am J Physiol Regul Integr Comp Physiol*, 2007, 292(5): R1970-R1976.
- BURGOMASTER K. A., HEIGENHAUSER G. J., GIBALA M. J., « Effect of short-term sprint interval training on human skeletal muscle carbohydrate metabolism during exercise and time-trial performance », *J Appl Physiol*, 2006, 100(6): 2041-2047.
  - DIALLO O., DORE E., DUCHE P., VAN PRAAGH E., « Effects of plyometric training followed by a reduced training programme on physical performance in prepubescent soccer players », *J Sports Med Phys Fitness*, 2001, 41(3): 342-348.
  - DOCHERTY D., WENGER H. A., COLLIS M. L., « The effects of resistance training on aerobic and anaerobic power of young boys », *Med Sci Sports Exerc*, 1987, 19(4): 389-392.
  - ERIKSSON B. O., GOLLNICK P. D., SALTIN B., « Muscle metabolism and enzyme activities after training in boys 11-13 years old », *Acta Physiol Scand*, 1973, 87(4): 485-497.
  - ERIKSSON B. O., KARLSSON J., SALTIN B., « Muscle metabolites during exercise in pubertal boys », *Acta Paediatr Scand Suppl*, 1971, 217: 154-157.
  - GAMELIN F. X., BAQUET G., BERTHOIN S., THEVENET D., NOURRY C., NOTTIN S., BOSQUET L., « Effect of high intensity intermittent training on heart rate variability in prepubescent children », *Eur J Appl Physiol*, 2009, 105(5): 731-738.
  - GIBALA M. J., LITTLE J. P., MACDONALD M. J., HAWLEY J. A., « Physiological adaptations to low-volume, high-intensity interval training in health and disease », *J Physiol*, 2012, 590(Pt5): 1077-1084.
  - GIBALA M. J., LITTLE J. P., VAN ESSEN M., WILKIN G. P., BURGOMASTER K. A., SAFDAR A., RAHA S., TARNOPOLSKY M. A., « Short-term sprint interval versus traditional endurance training: similar initial adaptations in human skeletal muscle and exercise performance », *J Physiol*, 2006, 575(Pt 3): 901-911.
  - GRODIJNOSKY A., INBAR O., DOTAN R., BAR-OR O. « Training effect on the anaerobic performance of children as measured by the Wingate anaerobic test ». In: BERG K., ERIKSSON B. O., *Children and Exercise IX*, Baltimore, University Park Press, 1980, 139-145.
  - KASABALIS A., DOUDA H., TOKMAKIDIS S. P., « Relationship between anaerobic power and jumping of selected male volleyball players of different ages », *Percept Mot Skills*, 2005, 100(3 Pt 1): 607-614.
  - KATCH V. L., « Physical conditioning of children », *J Adolesc Health Care*, 1983, 3(4): 241-246.
  - LE CHEVALIER J. M., « Pourquoi les efforts lactiques dits de « résistance » sont néfastes pour les jeunes (de benjamins à cadets)? », *Revue de l'Association des Entraîneurs Français d'Athlétisme (AEFA)*, 1999, HS42.
  - McMANUS A. M., ARMSTRONG N., WILLIAMS C. A., « Effect of training on the

## L'enfant et l'activité physique

aerobic power and anaerobic performance of prepubertal girls », *Acta Paediatr*, 1997, 86(5): 456-459.

- MCNARRY M. A., WELSMAN J. R., JONES A. M., « The influence of training and maturity status on girls' responses to short-term, high-intensity upper- and lower-body exercise », *Appl Physiol Nutr Metab*, 2011a, 36(3): 344-352.
- MCNARRY M. A., WELSMAN J. R., JONES A. M., « Influence of training and maturity status on the cardiopulmonary responses to ramp incremental cycle and upper body exercise in girls », *J Appl Physiol*, 2011b, 110(2): 375-381.
- MCNARRY M. A., WELSMAN J. R., JONES A. M., « Influence of training status and maturity on pulmonary O<sub>2</sub> uptake recovery kinetics following cycle and upper body exercise in girls », *Pediatr Exerc Sci*, 2012, 24(2): 246-261.
- MECKEL Y., GEFEN Y., NEMET D., ELIAKIM A., « Influence of short vs. long repetition sprint training on selected fitness components in young soccer players », *J Strength Cond Res*, 2012, 26(7): 1845-1851.
- NEVILL M. E., BOOBIS L. H., BROOKS S., WILLIAMS C., « Effect of training on muscle metabolism during treadmill sprinting », *J Appl Physiol*, 1989, 67(6): 2376-2382.
- OBERT P., STECKEN F., COURTEIX D., GERMAIN P., LECOQ A. M., GUENON P., « Adaptations myocardiques chez l'enfant prépubère soumis à un entraînement intensif. Étude comparative entre une population de gymnastes et de nageurs », *Sci Sports*, 1997, 12(4): 223-231.
- PETERSEN S. R., GAUL C. A., STANTON M. M., HANSTOCK C. C., « Skeletal muscle metabolism during short-term, high-intensity exercise in prepubertal and pubertal girls », *J Appl Physiol*, 1999, 87(6): 2151-2156.
- PILEGAARD H., BANGSBO J., RICHTER E. A., JUEL C., « Lactate transport studied in sarcolemmal giant vesicles from human muscle biopsies: relation to training status », *J Appl Physiol*, 1994, 77(4): 1858-1862.
- RATEL S., « High-intensity and resistance training and elite young athletes », *Med Sport Sci*, 2011, 56: 84-96.
- RATEL S., MARTIN V., « Les exercices anaérobies lactiques chez les enfants : la fin d'une idée reçue ? », *Sci Sports*, 2012, 27: 195-200.
- ROSS A., LEVERITT M., « Long-term metabolic and skeletal muscle adaptations to short-sprint training: implications for sprint training and tapering », *Sports Med*, 2001, 31(15): 1063-1082.
- TIMMONS B. W., BAR-OR O., « RPE during prolonged cycling with and without carbohydrate ingestion in boys and men », *Med Sci Sports Exerc*, 2003, 35(11): 1901-1907.
- TONSON A., RATEL S., LE FUR Y., VILMEN C., COZZONE P. J., BENDAHAN D., « Muscle energetics changes throughout maturation: a quantitative 31P-MRS analysis », *J Appl Physiol*, 2010, 109(6): 1769-1778.
- TSOLAKIS C., VAGENAS G., DESSYPRIS A., « Growth and anabolic hormones,

leptin, and neuromuscular performance in moderately trained prepubescent athletes and untrained boys », *J Strength Cond Res*, 2003, 17(1): 40-46.

- VAN PRAAGH E., DORE E., « Short-term muscle power during growth and maturation », *Sports Med*, 2002, 32(11): 701-728.
- WEINECK J., *Biologie du sport, Editions Vigot*, 1992.
- WILLIAMS C. A., ARMSTRONG N., POWELL J., « Aerobic responses of prepubertal boys to two modes of training », *Br J Sports Med*, 2000, 34(3): 168-173.

## **Chapitre 9**

- BAQUET G., BERTHOIN S., DUPONT G., BLONDEL N., FABRE C., VAN PRAAGH E., « Effects of high intensity intermittent training on peak VO<sub>2</sub> in prepubertal children », *Int J Sports Med*, 2002, 23(6): 439-444.
- BAQUET G., VAN PRAAGH E., BERTHOIN S., « Endurance training and aerobic fitness in young people », *Sports Med*, 2003, 33(15): 1127-1143.
- BECKER D. M., VACCARO P., « Anaerobic threshold alterations caused by endurance training in young children », *J Sports Med Phys Fitness*, 1983, 23(4): 445-449.
- BERTHOIN S., MANTECA F., GERBEAUX M., LENSEL-CORBEIL G., « Effect of a 12-week training programme on Maximal Aerobic Speed (MAS) and running time to exhaustion at 100% of MAS for students aged 14 to 17 years », *J Sports Med Phys Fitness*, 1995, 35(4): 251-256.
- BORG G., *Borg's perceived exertion and pain scales*, Human Kinetics, 1998.
- BOSQUET L., LEGER L., LEGROS P., « Methods to determine aerobic endurance », *Sports Med*, 2002, 32(11): 675-700.
- BOUCHARD C., AN P., RICE T., SKINNER J. S., WILMORE J. H., GAGNON J., PERUSSE L., LEON A. S., RAO D. C., « Familial aggregation of VO<sub>2max</sub> response to exercise training: results from the HERITAGE Family Study », *J Appl Physiol*, 1999, 87(3): 1003-1008.
- CONLEY D. L., KRAHENBUHL G. S., BURKETT G. S., MILLAR A. L., « Following Steve Scott: Physiological changes accompanying training », *Phys Sports Med* 1984, 12: 103-106.
- COQUART J. B. J., LENSEL G., GARCIN M., « Perception de l'effort chez l'enfant et l'adolescent : mesure et intérêts », *Sci Sports*, 2009, 24: 137-145.
- GERBEAUX M., BERTHOIN S., *Aptitude et pratique aérobies chez l'enfant et l'adolescent: la préparation physique à l'horizon 2000*, Presses Universitaires de France, 1999.
- KARVONEN M. J., KENTALA E., MUSTALA O., « The effects of training on heart rate; a longitudinal study », *Ann Med Exp Biol Fenn*, 1957, 35(3): 307-315.
- LEGER L., BOUCHER R., « An indirect continuous running multistage field test: the Universite de Montreal track test », *Can J Appl Sport Sci*, 1980, 5(2): 77-84.
- LEGER L. A., MERCIER D., GADOURY C., LAMBERT J., « The multistage 20 metre

## L'enfant et l'activité physique

- shuttle run test for aerobic fitness », *J Sports Sci*, 1988, 6(2): 93-101.
- MAHON A. D., VACCARO P., « Ventilatory threshold and VO<sub>2max</sub> changes in children following endurance training », *Med Sci Sports Exerc*, 1989, 21(4): 425-431.
  - MCCORMACK W. P., CURETON K. J., BULLOCK T. A., WEYAND P. G., « Metabolic determinants of 1-mile run/walk performance in children », *Med Sci Sports Exerc*, 1991, 23(5): 611-617.
  - MCMANUS A. M., ARMSTRONG N., WILLIAMS C. A., « Effect of training on the aerobic power and anaerobic performance of prepubertal girls », *Acta Paediatr*, 1997, 86(5): 456-459.
  - MUCCI P., BAQUET G., NOURRY C., DERUELLE F., BERTHOIN S., FABRE C., « Exercise testing in children: Comparison in ventilatory thresholds changes with interval-training », *Pediatr Pulmonol Sous presse*.
  - PETRAY C. K., KRAHENBUHL G. S., « Running training, instruction on running technique, and running economy in 10-year-old males », *Res Q Exerc Sport*, 1985, 56: 251-255.
  - ROTSTEIN A., DOTAN R., BAR-OR O., TENENBAUM G., « Effect of training on anaerobic threshold, maximal aerobic power and anaerobic performance of preadolescent boys », *Int J Sports Med*, 1986, 7(5): 281-286.
  - ROWLAND T. W., *Developmental exercise physiology*, Human Kinetics, 1996.
  - SCRIMGEOUR A. G., NOAKES T. D., ADAMS B., MYBURGH K., « The influence of weekly training distance on fractional utilization of maximum aerobic capacity in marathon and ultramarathon runners », *Eur J Appl Physiol Occup Physiol*, 1986, 55(2): 202-209.
  - WILLIAMS C. A., ARMSTRONG N., POWELL J., « Aerobic responses of prepubertal boys to two modes of training », *Br J Sports Med*, 2000, 34(3): 168-173.
  - WILLIAMS J. G., ESTON R., FURLONG B., « CERT: a perceived exertion scale for young children », *Percept Mot Skills*, 1994, 79(3 Pt 2): 1451-1458.

## Chapitre 10

- ABERNETHY B., « Entrainement général, entraînement spécifique », *2èmes journées internationales des sciences du sport « expertise et sport de haut niveau*, 2002,
- ABERNETHY B., « Theory to practice - Sports expertise », *Sport coach, An online magazine for coaches*, 2005.
- ARAUJO D., FONSECA C., DAVIDS K., GARGANTA J., VOLOSSOVITCH BRANDAO R., KREBS R., « The Role of Ecological Constraints on Expertise Development », *Talent Development & Excellence*, 2010, 2: 165-179.
- AVANZINI G., RIFF J., « Étude de carnets d'entraînement de sportifs de haut niveau : outils de construction de méta-connaissances ? », *SFPS, Poitiers*, 1998, 38-39.
- BAILEY R., COLLINS D., FORD P., MACNAMARA A., TOMS M., PEARCE G., *Partici-*

*pant Development in Sport: An Academic Review*, The national coaching foundation, UK and Sport Northern Ireland, 2010.

- BAKER J., CÔTÉ J., ABERNETHY B., « Sport-Specific Practice and the Development of Expert Decision-Making in Team Ball Sports », *J Appl Sport Psychol*, 2003a, 15: 12-25.
- BAKER J., HORTON S., ROBERTSON-WILSON J., WALL M., « Nurturing sport expertise: Factors influencing the development of elite athlete », *J Sports Sci Med*, 2003b, 2: 1-9.
- BANDURA A., CAPRARO G. V., BARBARANELLI C., PASTORELLI C., REGALIA C., « Sociocognitive self-regulatory mechanisms governing transgressive behaviors », *Journal of Personality and Social Psychology*, 2001, 80: 125-135.
- BLOM L., DRANE D., « Parents' Sideline Comments: Exploring the Reality of a Growing Issue », *The online journal of sport psychology*, 2008, 3.
- BLOOM B., *Developing talent in young people*, Editions New York, 1985.
- BOIS J., SARRAZIN P. G., « Les chiens font-ils des chats? Une revue de littérature sur le rôle des parents dans la socialisation de leur enfant pour le sport », *Science et Motricité*, 2006, 57: 9-54.
- BOIS J., SARRAZIN P. G., BRUSTAD R., CHANAL J. P., TROUILLOUD D. O., « Parents' Appraisals, Reflected Appraisals, and Children's Self-Appraisals of Sport Competence: A Yearlong Study », *J Appl Sport Psychol*, 2005, 17: 273-289.
- BOIS J. E., LALANNE J., DELFORGE C., « The influence of parenting practices and parental presence on children's and adolescents' pre-competitive anxiety », *J Sports Sci*, 2009, 27(10): 995-1005.
- BUKOWSKI W. M., SIPPOLA L. K. « Friendship and morality: (How) are they related ? ». In: BUKOWSKI W. M., NEWCOMB A. F., HARTUP W. W., *The Company They Keep: Friendships in Childhood and Adolescence*, New York, Cambridge Univesrity Press, 1996, 238-261.
- BURKLAND K., DAVIDSON D., « Rôle des parents dans le développement du musicien classique professionnel », *STAPS*, 2004, 64: 89-107.
- BUTTON A. « Principles and methodologies in talent identification and development ». In: COLLINS D., BUTTON A., RICHARDS H., *Performance psychology – A practitioner's guide*, Elsevier, 2011, 85-96.
- CARLSON R. C., « The socialization of elite tennis players in Sweden: An analysis of the players' backgrounds and development », *Sociology of Sport Journal*, 1988, 5: 241-256.
- CARR S., WEIGAND D. A., JONES J., « The relative influence of parents, peers and sporting heroes on goal orientations of children and adolescents in sport », *Journal of Sport Pedagogy*, 2000, 6: 34-55.
- COLLINS D. « Implications and applications: views from the performant's panel ». In: COLLINS D., BUTTON A., RICHARDS H., *Performance psychology – A practitioner's guide*, Elsevier, 2011, 85-96.

## L'enfant et l'activité physique

- COSNEFROY O., Âge d'entrée à l'école élémentaire, habiletés d'autorégulation en classe et devenir scolaire des enfants, Université de Nantes, Nantes, Thèse de doctorat, 2010.
- CÔTÉ J., « The influence of the family in the development of talent in sport », *The sport psychologist*, 1999, 13: 395-417.
- CÔTÉ J., « L'utilisation d'entretien pour quantifier l'implication des parents dans le développement de compétences sportives chez les athlètes », STAPS, 2004, 64: 39-52.
- CÔTÉ J., HORTON S., MACDONALD D., WILKES S., « The benefits of sampling sports during childhood », 2009a.
- CÔTÉ J., LIDOR R., HACKFORT D., « ISSP Position Stand: To Sample or to Specialize? Seven Postulates about Youth Sport Activities that Lead to Continued Participation and Elite Performance », *International Journal Of Sport and Exercise*, 2009b, 7: 7-17.
- CÔTÉ J., YOUNG B., NORTH J., DUFFY P., « Towards a definition of excellence in sport coaching », *International Journal Of Coaching Science*, 2007, 1: 3-17.
- DONZÉ C., EURO SENIOR EURO JUNIOR: *L'accès au haut-niveau Document interne FFN*, 2005.
- DURAND-BUSH N., « Le rôle joué par des parents dans le développement et le maintien de la performance experte », STAPS, 2004, 64: 15-38.
- DURAND-BUSH N., SALMELA J. H., « The Development and Maintenance of Expert Athletic Performance: Perceptions of World and Olympic Champions », *J Appl Sport Psychol*, 2002, 14(3): 154-171.
- ERICSSON K. A., *The road of excellence : The acquisition of expert excellence in the arts and sciences, sports and games*, NJ Edition, 1996.
- ERICSSON K. A., « Développement de l'expertise en sport », 2èmes journées internationales des sciences du sport « expertise et sport de haut niveau, Paris, 2002, 9-10.
- ERICSSON K. A., KRAMPE R. T., TESH-RÖMER C., « The role of deliberate practice in the acquisition of expert performance », *Psychological Review*, 1993, 100: 363-406.
- FORTÉ L., MENESSON C., « Réussite athlétique et héritage sportif. Socialisation familiale et développement d'un capital sportif de haut niveau référence électronique », <http://sociologies.revues.org>, 2012.
- GAUVIN L., « Enfance, adolescence et activité sportives : revue et critique », *Revue Québécoise de Psychologie*, 1989, 10: 191-208.
- GUERRA N. G., WILLIAMSON A. A., LUCAS-MOLINA B. « Normal development: Infancy, childhood, and adolescence ». In: REY J. M., *e-Textbook of Child and Adolescent Mental Health*, Genève, ICAPAP, 2012.
- GUIVARC'H L., « L'enfant prodige, un mythe ? », *Natation magazine*, 2013, 139: 34-38.
- GULBIN J. P., ODENZIEL K. E., WEISSENSTEINER J. R., GAGNÉ F., « A Look Through the Rear View Mirror: Developmental Experiences and Insights of High Performance Athletes », *Talent Development & Excellence*, 2010, 149: 149-164.

- HARWOOD C., « Positive youth development: Integrating the 5C's into your professional practice », *International week of sport psychology, PE4EP Expert Class*, Paris, 2013,
- HARWOOD C., KNIGHT C., « Understanding parental stressors: An investigation of British tennis parents », *J Sports Sci*, 2009, 27: 339-351.
- HELSEN W. F., STARKES J. L., HODGES N. J., « Team sports and the theory of deliberate practice », *Journal of Sport & Exercise Psychology*, 1998, 20: 13-35.
- HOHMANN A., SIEDEL I., « Scientific aspects of talent development », *International Journal Of Physical Education*, 2003, 40: 9-20.
- HURTEL V., LACASSAGNE M. F., « Importance des parents dans l'environnement social de jeunes joueurs de tennis : comparaison entre les années d'échantillonnage et les années de spécialisation », *STAPS*, 2009, 2: 93-104.
- INSEE, « Enquête Insee : Transmissions familiales », *Bulletin du Département des études et de la prospective*, 2004, 143.
- LANDRY S., *Effective Early Childhood Programs: Turning Knowledge Into Action*, University of Texas, 2005.
- LE BRETON D., *Anthropologie de la douleur*, Editions Métaillé, 1995.
- MARTINDALE R., MORTIMER P. « Talent development environments : key considerations for effective practice ». In: COLLINS D., BUTTON A., RICHARDS H., *Performance psychology – A practitioner's guide*, Elsevier, 2011, 65-84.
- MASTRONARDI-JOHNER G., PIEDFORT-MARIN O., *Entraînement mental des jeunes sportifs*, Amphora, 2001.
- NTOUNAMIS N., VAZOU S., DUDA J. L. « Le climat motivationnel créé par les pairs ». In: JOWETT S., LAVALLÉE D., *Psychologie sociale du sport*, Bruxelles, De Boeck, 2008, 157-168.
- PELLERIN F., *Accédez au sommet. Le chemin est en vous* Michel Lafon, 2013.
- POPPLETON W. L., SALMONI A. W., « Talent identification in swimming », *Journal of Human Movement Studies*, 1991, 20: 85-100.
- SALMELA J. H., « Détection des talents », *Revue EPS*, 1997, 267: 27-29.
- VAZOU S., NTOUNAMIS N., DUDA J. L., « Peer motivational climate in youth sport: a qualitative inquiry », *Psychology of Sport and Exercise*, 2005, 6: 497-516.
- VERGER M., « L'apprentissage d'une routine en natation pour le jeune compétiteur », Journées Nationales d'études de la Société Française de Psychologie du Sport, Dijon, 2006, 81-84.
- VERGER M., BERTRANK S., « L'apprentissage d'une routine de performance en rugby à partir des croyances (exemple du buteur) », *Sci Sports*, 2008, 23: 38-40.
- VERGER M., GARCIA S., JOLIVOT G., « Gérer La dynamique de la douleur dans l'effort en natation », 4èmes Journées spécialisées de natation, ACAPS, Lille, 2008, 157-159.
- VILLEMAIN A., AVANZINI G., « Les carnets d'entraînement de sportifs : un outil

## L'enfant et l'activité physique

d'*analyse de la performance ?* », 3èmes Journées internationales des Sciences du sport, Paris, INSEP, 2004, 87-89.

- WATSON G. G., BLANSKI B. A., BLOOMFIELD J., *Childhood specialisation and competitive swimming: A social psychology of elite junior*, University of Technology, 1986.
- WILLEMAN P., « Athlète de haut niveau, transition scolaire et rôle des parents », STAPS, 2004, 64: 71-87.
- WILLEMAN P., « Working with athletes in career transitions », *International week of sport psychology, PE4EP Expert Class*, INSEP, Paris, 2013,
- WILLEMAN P., LAVALLÉE D. « A developmental perspective on transitions faced by athletes ». In: WEISS M. R., *Developmental Sport and Exercise Psychology: A Lifespan Perspective*, Morgantown, Fitness Information Technology, 2004, 507-527.
- WUERTH S., LEE M. S., ALFERMAN D., « Parental involvement and athletes' career in youth sport », *Psychology of Sport and Exercise*, 2004, 5: 21-33.

## Chapitre 11

- BAXTER-JONES A. D. G., MAFFULLI N., MIRWALD R. L., « Does elite competition inhibit growth and delay maturation in some gymnasts? », *Pediatric Exercise Science*, 2003, 15: 373-382.
- BROOK C., *Clinical Pediatric Endocrinology*, Blackwell Publishing, 2006.
- CAINE D., BASS S. L., DALY R., « Does elite competition inhibit growth and delay maturation in some gymnasts? », *Pediatric Exercise Science*, 2003, 15: 360-372.
- CLAESSENS A. L., VEER F. M., STIJNEN V., LEFEVRE J., MAES H., STEENS G., BEUNEN G., « Anthropometric characteristics of outstanding male and female gymnasts », *J Sports Sci*, 1991, 9(1): 53-74.
- DALY R. M., RICH P. A., KLEIN R., BASS S. L., « Short stature in competitive prepubertal and early pubertal male gymnasts: the result of selection bias or intense training? », *J Pediatr*, 2000, 137(4): 510-516.
- DUCLOS M. « Hypothalamo-pituitary-adrenal axis adaptation to repeated and prolonged exercise-induced cortisol secretion in endurance training: physiology is the first target » *Focus on Exercise and Health Research*, New York, NovaScience Publishers, 2005, 131-161.
- DUCLOS M. « La physiologie endocrinienne ». In: ADER J. L., CARRÉ F., DINH-XUAN A. T., DUCLOS M., KUBIS N., MERCIER J., MION F., PRÉFAUT C., ROMAN S., *Physiologie*, 2006.
- DUCLOS M., « [Hormonal impact of sport in young female athlete] », *Arch Pediatr*, 2007, 14(6): 534-536.
- DUCLOS M., DUCHÉ P., GUEZENNEC C. Y., RICHARD R., RIVIÈRE D., VIDALIN H., « Position de consensus : activité physique et obésité chez l'enfant et chez l'adulte », *Sci Sports*, 2010, 25: 207-225.

- DUCLOS M., GUINOT M., LE BOUC Y., « Cortisol and GH: odd and controversial ideas », *Appl Physiol Nutr Metab*, 2007, 32(5): 895-903.
- ERLANDSON M. C., SHERAR L. B., MIRWALD R. L., MAFFULLI N., BAXTER-JONES A. D., « Growth and maturation of adolescent female gymnasts, swimmers, and tennis players », *Med Sci Sports Exerc*, 2008, 40(1): 34-42.
- FERRY B., LESPESSAILLES E., ROCHCONGAR P., DUCLOS M., COURTEIX D., « Bone health during late adolescence: effects of an 8-month training program on bone geometry in female athletes », *Joint Bone Spine*, 2013, 80(1): 57-63.
- GEORGOPoulos N. A., MARKOU K. B., THEODOROPOULOU A., BENARDOT D., LEGLISE M., VAGENAKIS A. G., « Growth retardation in artistic compared with rhythmic elite female gymnasts », *J Clin Endocrinol Metab*, 2002, 87(7): 3169-3173.
- GEORGOPoulos N. A., MARKOU K. B., THEODOROPOULOU A., VAGENAKIS G. A., BENARDOT D., LEGLISE M., DIMOPOULOS J. C., VAGENAKIS A. G., « Height velocity and skeletal maturation in elite female rhythmic gymnasts », *J Clin Endocrinol Metab*, 2001, 86(11): 5159-5164.
- GEORGOPoulos N. A., ROUPAS N. D., THEODOROPOULOU A., TSEKOURAS A., VAGENAKIS A. G., MARKOU K. B., « The influence of intensive physical training on growth and pubertal development in athletes », *Ann N Y Acad Sci*, 2010, 1205: 39-44.
- GEORGOPoulos N. A., THEODOROPOULOU A., ROUPAS N. A., ROTTSTEIN L., TSEKOURAS A., MYLONAS P., VAGENAKIS G. A., KOUKKOU E., ARMENI A. K., SAKELLAROPOULOS G., LEGLISE M., VAGENAKIS A. G., MARKOU K. B., « Growth velocity and final height in elite female rhythmic and artistic gymnasts », *Hormones (Athens)*, 2012a, 11(1): 61-69.
- GEORGOPoulos N. A., THEODOROPOULOU A., ROUPAS N. D., ARMENI A. K., KOUKKOU E., LEGLISE M., MARKOU K. B., « Final height in elite male artistic gymnasts », *J Pediatr Endocrinol Metab*, 2012b, 25(3-4): 267-271.
- GREULICH W. W., PYLE S. I., *Radiographic atlas of skeletal development of the hand and wrist*, 1959.
- INSERM E. c., *Activité physique, Contextes et effets sur la santé*, 2008.
- KAPRIO J., RIMPELÄ A., WINTER T., VIKEN R. J., RIMPELÄ M., ROSE R. J., « Common genetic influences on BMI and age at menarche », *Hum Biol*, 1995, 67(5): 739-753.
- MAFFULLI N., CHAN D., ALDRIDGE M. J., « Overuse injuries of the olecranon in young gymnasts », *J Bone Joint Surg Br*, 1992, 74(2): 305-308.
- MALINA R. M., BIELICKI T., « Retrospective longitudinal growth study of boys and girls active in sport », *Acta Paediatr*, 1996, 85(5): 570-576.
- MARKOU K. B., THEODOROPOULOU A., TSEKOURAS A., VAGENAKIS A. G., GEORGOPoulos N. A., « Bone acquisition during adolescence in athletes », *Ann N Y Acad Sci*, 2010, 1205: 12-16.
- ROGOL A. D., ROEMMICH J. N., CLARK P. A., « Growth at puberty », *J Adolesc Health*, 2002, 31(6 Suppl): 192-200.

## L'enfant et l'activité physique

- TANNER J. M., WHITEHOUSE R. H., « Clinical longitudinal standards for height, weight, height velocity, weight velocity, and stages of puberty », *Arch Dis Child*, 1976, 51(3): 170-179.
- THEINTZ G. E., HOWALD H., WEISS U., SIZONENKO P. C., « Evidence for a reduction of growth potential in adolescent female gymnasts », *J Pediatr*, 1993, 122(2): 306-313.
- WARREN M. P., PERLROTH N. E., « The effects of intense exercise on the female reproductive system », *J Endocrinol*, 2001, 170(1): 3-11.
- WEIMANN E., WITZEL C., SCHWIDERSGALL S., BOHLES H. J., « Peripubertal perturbations in elite gymnasts caused by sport specific training regimes and inadequate nutritional intake », *Int J Sports Med*, 2000, 21(3): 210-215.

## Chapitre 12

- ANC, *Apports nutritionnels conseillés pour la population française*, Tec&Doc, 2001.
- ANC, *Apports nutritionnels conseillés pour les enfants et les adolescents sportifs de haut-niveau de performance*, Tec&Doc, 2004.
- BAR-OR O., WILK B., « Water and electrolyte replenishment in the exercising child », *Int J Sport Nutr*, 1996, 6(2): 93-99.
- BENSON J., GILLIEN D. M., BOURDET K., LOOSLI A. R., « Inadequate nutrition and chronic calorie restriction in adolescent ballerinas », *The Physician and Sport Medicine*, 1985, 13(10): 79-90.
- BENSON J. E., GEIGER C. J., EISERMAN P. A., WARDLAW G. M., « Relationship between nutrient intake, body mass index, menstrual function, and ballet injury », *J Am Diet Assoc*, 1989, 89(1): 58-63.
- BLACK A. E., COWARD W. A., COLE T. J., PRENTICE A. M., « Human energy expenditure in affluent societies: an analysis of 574 doubly-labelled water measurements », *Eur J Clin Nutr*, 1996, 50: 72-92.
- BOISSEAU N., LE CREFF C., LOYENS M., POORTMANS J. R., « Protein intake and nitrogen balance in male non-active adolescents and soccer players », *Eur J Appl Physiol*, 2002, 88(3): 288-293.
- BOISSEAU N., VERA-PEREZ S., POORTMANS J. R., « Food and fluid intake in adolescent female judo athletes before competition », *Pediatr Exerc Sci*, 2005, 17: 62-71.
- BOISSEAU N., VERMOREL M., RANCE M., DUCHE P., PATUREAU-MIRAND P., « Protein requirements in male adolescent soccer players », *Eur J Appl Physiol*, 2007, 100(1): 27-33.
- BROWNELL K. D., STEEN S. N., WILMORE J. H., « Weight regulation practices in athletes: analysis of metabolic and health effects », *Med Sci Sports Exerc*, 1987, 19(6): 546-556.
- CHATARD J. C., MUJICA I., GUY C., LACOUR J. R., « Anaemia and iron deficiency in athletes. Practical recommendations for treatment », *Sports Med*, 1999, 27(4): 229-240.

- CONSTANTINI N. W., ELIAKIM A., ZIGEL L., YAARON M., FALK B., « Iron status of highly active adolescents: evidence of depleted iron stores in gymnasts », *Int J Sport Nutr Exerc Metab*, 2000, 10(1): 62-70.
- DEUTZ R. C., BENARDOT D., MARTIN D. E., CODY M. M., « Relationship between energy deficits and body composition in elite female gymnasts and runners », *Med Sci Sports Exerc*, 2000, 32(3): 659-668.
- DIXON G., EURMAN P., STERN B. E., SCHWARTZ B., REBAR R. W., « Hypothalamic function in amenorrheic runners », *Fertil Steril*, 1984, 42(3): 377-383.
- FREISCHLAG J., « Weight loss, body composition, and health of high school wrestlers. », *The Physician and Sport Medicine*, 1984, 12(1): 121-126.
- MANORE M. M., « Dietary recommendations and athletic menstrual dysfunction », *Sports Med*, 2002, 32(14): 887-901.
- O'CONNOR P. J., LEWIS R. D., BOYD A., « Health concerns of artistic women gymnasts », *Sports Med*, 1996, 21(5): 321-325.
- OPPLIGER R. A., STEEN S. A., SCOTT J. R., « Weight loss practices of college wrestlers », *Int J Sport Nutr Exerc Metab*, 2003, 13(1): 29-46.
- PETRIE H. J., STOVER E. A., HORSWILL C. A., « Nutritional concerns for the child and adolescent competitor », *Nutrition*, 2004, 20(7-8): 620-631.
- RDA, *Commission on Life Sciences Recommended Daily Allowances (RDA)*, 10th Ed., The National Academy Press, 1989.
- ROWLAND T. W., « Iron deficiency in the young athlete », *Pediatr Clin North Am*, 1990, 37(5): 1153-1163.
- ROWLAND T. W., STAGG L., KELLEHER J. F., « Iron deficiency in adolescent girls. Are athletes at increased risk? », *J Adolesc Health*, 1991, 12(1): 22-25.
- STRAUSS R. H., LANESE R. R., MALARKEY W. B., « Weight loss in amateur wrestlers and its effect on serum testosterone levels », *JAMA*, 1985, 254(23): 3337-3338.
- SUNDGOT-BORGREN J., « Eating disorders, energy intake, training volume, and menstrual function in high-level modern rhythmic gymnasts », *Int J Sport Nutr*, 1996, 6(2): 100-109.
- TORUN B., DAVIES P. S. W., LIVINGSTONE M. B. E., PAOLISSO M., SACKETT R., SPURR G. B., « Energy requirements and dietary energy recommendations for children and adolescents 1 to 18yrs old. », *Eur J Clin Nutr*, 1996, 50 (suppl)(1): S37-S81.
- TUROCY P. S., DEPALMA B. F., HORSWILL C. A., LAQUALE K. M., MARTIN T. J., PERRY A. C., SOMOVA M. J., UTTER A. C., NATIONAL ATHLETIC TRAINERS A., « National Athletic Trainers' Association position statement: safe weight loss and maintenance practices in sport and exercise », *J Athl Train*, 2011, 46(3): 322-336.
- WEIMANN E., WITZEL C., SCHWIDDERGALL S., BOHLES H. J., « Peripubertal perturbations in elite gymnasts caused by sport specific training regimes and inadequate nutritional intake », *Int J Sports Med*, 2000, 21(3): 210-215.

## Chapitre 13

- BÄRTSCH P., ROACH R. « Acute mountain sickness and high-altitude cerebral edema ». In: HORNBEIN T. F., SCHOENE R. B., *High altitude - An exploration of human adaptation*, New-York-Basel, Marcel Dekker, 2001, 731-776.
- BEDU M., FALGAIRETTE G., VAN PRAAGH E., COUDERT J., « Effect of chronic hypoxia and socioeconomic status on anaerobic power of 10- to 12-year-old Bolivian boys », *Int J Sports Med*, 1994, 15 Suppl 2: S84-89.
- BIANBA B., BERNTSEN S., ANDERSEN L. B., STIGUM H., BJERTNESS E., « Estimation of peak oxygen uptake from maximal power output among 9-10 year-old children in Lhasa, Tibet », *J Sports Med Phys Fitness*, 2010, 50(3): 274-280.
- BLOCH J., DUPLAINE H., RIMOLDI S. F., STUBER T., KRIEMLER S., ALLEMANN Y., SARTORI C., SCHERRER U., « Prevalence and time course of acute mountain sickness in older children and adolescents after rapid ascent to 3450 meters », *Pediatrics*, 2009, 123(1): 1-5.
- BLONC S., FELLMANN N., BEDU M., FALGAIRETTE G., DE JONGE R., OBERT P., BEAUNE B., SPIELVOGEL H., TELLEZ W., QUINTELA A., SAN MIGUEL J. L., COUDERT J., « Effect of altitude and socioeconomic status on VO<sub>2</sub>max and anaerobic power in prepubertal Bolivian girls », *J Appl Physiol*, 1996, 80(6): 2002-2008.
- BOISSEAU N. « Adaptations métaboliques à l'exercice chez l'enfant et l'adolescent ». In: VAN PRAAGH E., *Physiologie du sport: Enfant et adolescent*, Bruxelles, DeBoeck, 2008, 49-71.
- DE MEER K., HEYMANS H. S., ZIJLSTRA W. G., « Physical adaptation of children to life at high altitude », *Eur J Pediatr*, 1995, 154(4): 263-272.
- FELLMANN N., BEAUNE B., COUDERT J., « Blood lactate after maximal and supra-maximal exercise in 10- to 12-year-old Bolivian boys. Effects of altitude and socioeconomic status », *Int J Sports Med*, 1994, 15 Suppl 2: S90-95.
- GENTILE D. A., KENNEDY B. C., « Wilderness medicine for children », *Pediatrics*, 1991, 88(5): 967-981.
- GREEN H. J., SUTTON J. R. « The effects of altitude on skeletal muscle ». In: HORNBEIN T. F., SCHOENE R. B., *High altitude - An exploration of human adaptation*, New-York-Basel, Marcel Dekker, 2001, 443-492.
- GROVER R. F., BÄRTSCH P. « Blood ». In: HORNBEIN T. F., SCHOENE R. B., *High altitude - An exploration of human adaptation*, New-York-Basel, Marcel Dekker, 2001, 493-552.
- HORNBEIN T. F., SCHOENE R. B. « High altitude - An exploration of human adaptation », New-York-Basel, Marcel Dekker, 2001.
- JEAN D. « L'enfant en altitude ». In: RICHALET J.-P., HERRY J.-P., *Médecine de l'alpinisme et des sports de montagne*, Paris, Masson, 2006, 264-271.
- KOHLER M., KRIEMLER S., WILHELM E. M., BRUNNER-LAROCCA H., ZEHNDER M.,

- BLOCH K. E., « Children at high altitude have less nocturnal periodic breathing than adults », *Eur Respir J*, 2008, 32(1): 189-197.
- LAHIRI S., CHERNIAK N. S. « Cellular and molecular mechanisms of O<sub>2</sub> sensing with special reference to carotid body ». In: HORNBEIN T. F., SCHOENE R. B., *High altitude - An exploration of human adaptation*, New-York-Basel, Marcel Dekker, 2001, 101-130.
  - MAZZEO R. S., « Physiological responses to exercise at altitude : an update », *Sports Med*, 2008, 38(1): 1-8.
  - MORAGA F. A., OSORIO J. D., VARGAS M. E., « Acute mountain sickness in tourists with children at Lake Chungara (4400 m) in northern Chile », *Wilderness Environ Med*, 2002, 13(1): 31-35.
  - NIERMEYER S., ZAMUDIO S., MOORE L. G. « The people ». In: HORNBEIN T. F., SCHOENE R. B., *High altitude - An exploration of human adaptation*, New-York-Basel, Marcel Dekker, 2001, 43-100.
  - OBERT P., FALGAIRETTE G., SPIELVOGEL H., CACERES E., « Effect of chronic hypoxia and socioeconomic status on the maximal oxygen uptake of 10- to 12-year-old Bolivian boys », *Int J Sports Med*, 1994, 15 Suppl 2: S96-99.
  - POLLARD A. J., NIERMEYER S., BARRY P., BARTSCH P., BERGHOLD F., BISHOP R. A., CLARKE C., DHILLON S., DIETZ T. E., DURMOWICZ A., DURRER B., ELDRIDGE M., HACKETT P., JEAN D., KRIEMLER S., LITCH J. A., MURDOCH D., NICKOL A., RICHALET J. P., ROACH R., SHLIM D. R., WIGET U., YARON M., ZUBIETA-CASTILLO G., Sr., ZUBIETA-CALLEJA G. R., Jr., « Children at high altitude: an international consensus statement by an ad hoc committee of the International Society for Mountain Medicine, March 12, 2001 », *High Alt Med Biol*, 2001, 2(3): 389-403.
  - RAICHEL M. E., HORNBEIN T. F. « The high-altitude brain ». In: HORNBEIN T. F., SCHOENE R. B., *High altitude - An exploration of human adaptation*, New-York-Basel, Marcel Dekker, 2001, 377-423.
  - RICHALET J.-P., HERRY J.-P., *Médecine de l'alpinisme et des sports de montagne*, Masson, 2006.
  - RICHALET J.-P., KEROMES A., DERSCH B., CORIZZI F., MEHDIONI H., POPHILLAT B., CHARDONNET H., TASSERY F., HERRY J.-P., RATHAT C., CHADUTEAU C., DARNAUD B., « Caractéristiques physiologiques des alpinistes de haute altitude », *Sci Sports*, 1988, 3: 89-108.
  - RICHALET J. P., LARMIGNAT P., POITRINE E., LETOURNEL M., CANOUI-POITRINE F., « Physiological risk factors for severe high-altitude illness: a prospective cohort study », *Am J Respir Crit Care Med*, 2012, 185(2): 192-198.
  - SCRASE E., LAVERTY A., GAVLAK J. C., SONNAPPA S., LEVETT D. Z., MARTIN D., GROCOTT M. P., STOCKS J., « The Young Everest Study: effects of hypoxia at high altitude on cardiorespiratory function and general well-being in healthy children », *Arch Dis Child*, 2009, 94(8): 621-626.

## L'enfant et l'activité physique

- THEIS M. K., HONIGMAN B., YIP R., MCBRIDE D., HOUSTON C. S., MOORE L. G., « Acute mountain sickness in children at 2835 meters », *Am J Dis Child*, 1993, 147(2): 143-145.
- VEGLIO M., MAULE S., CAMETTI G., COGO A., LUSSIANA L., MADRIGALE G., PECCHIO O., « The effects of exposure to moderate altitude on cardiovascular autonomic function in normal subjects », *Clin Auton Res*, 1999, 9(3): 123-127.
- VILLENA M., SPIELVOGEL H., VARGAS E., OBERT P., ALARCON A. M., GONZALES C., FALGAIRETTE G., KEMPER H. C., « Anthropometry and lung function of 10- to 12-year-old Bolivian boys », *Int J Sports Med*, 1994, 15 Suppl 2: S75-78.
- WEST J. « The atmosphere ». In: HORNBEIN T. F., SCHOENE R. B., *High altitude - An exploration of human adaptation*, New-York-Basel, Marcel Dekker, 2001, 25-42.
- WHU T. Y., « Children on the Tibetan plateau », *The newsletter of the international Society for Mountain Medicine*, 1994, 4: 5-7.
- WILLIAMS C. A. « Environmental factors affecting elite young athletes ». In: ARMSTRONG N., McMANUS A. M., *The elite young athlete*, Basel, Karger, 2011, 150-170.
- WOLFEL E. E., LEVINE B. D. « The cardiovascular system at high altitude, Heart and systemic circulation ». In: HORNBEIN T. F., SCHOENE R. B., *High altitude - An exploration of human adaptation*, New-York-Basel, Marcel Dekker, 2001, 235-292.
- YARON M., NIERMEYER S., LINDGREN K. N., HONIGMAN B., « Evaluation of diagnostic criteria and incidence of acute mountain sickness in preverbal children », *Wilderness Environ Med*, 2002, 13(1): 21-26.

## Chapitre 14

- ATANDA A., Jr., SHAH S. A., O'BRIEN K., « Osteochondrosis: common causes of pain in growing bones », *Am Fam Physician*, 2011, 83(3): 285-291.
- BRENNER J. S., AMERICAN ACADEMY OF PEDIATRICS COUNCIL ON SPORTS M., FITNESS, « Overuse injuries, overtraining, and burnout in child and adolescent athletes », *Pediatrics*, 2007, 119(6): 1242-1245.
- BRUNET-GUEDJ E., BRUNET B., GIRARDIER J., MOYEN B., *Médecine du sport*, Masson, 2006.
- CAINE D., DIFIORI J., MAFFULLI N., « Physeal injuries in children's and youth sports: reasons for concern? », *Br J Sports Med*, 2006, 40(9): 749-760.
- CARTER C. W., MICHELI L. J., « Training the child athlete: physical fitness, health and injury », *Br J Sports Med*, 2011, 45(11): 880-885.
- CASSAS K. J., CASSETTARI-WAYHS A., « Childhood and adolescent sports-related overuse injuries », *Am Fam Physician*, 2006, 73(6): 1014-1022.
- DANOWSKI R.-G., CHANUSSOT J.-C., *Traumatologie du sport*, Masson, 2012.
- DUCHÉ P., VAN PRAAGH E., *Activités physiques et développement de l'enfant*,

Ellipses, 2008.

- JULIA M., CROISIER J.-L., PERREY S., DUPEYRON A., HÉRISSON C., *Prévention des troubles musculo-squelettiques chez le sportif*, 2013.
- KERSSEMAKERS S. P., FOTIADOU A. N., DE JONGE M. C., KARANTANAS A. H., MAAS M., « Sport injuries in the paediatric and adolescent patient: a growing problem », *Pediatr Radiol*, 2009, 39(5): 471-484.
- LAU L. L., MAHADEV A., HUI J. H., « Common lower limb sport-related overuse injuries in young athletes », *Ann Acad Med Singapore*, 2008, 37(4): 315-319.
- MARY P. « Pathologies douloureuses d'origine mécanique ». In: PRIEUR A. M., QUARTIER P., BADER-MEUNIER B., GLORION C., *Maladies systémiques et articulaires en rhumatologie pédiatrique*, Médecine Sciences Publications, 2009.
- MERKEL D. L., MOLONY J. T., Jr., « Recognition and management of traumatic sports injuries in the skeletally immature athlete », *Int J Sports Phys Ther*, 2012, 7(6): 691-704.
- RATEL S., « High-intensity and resistance training and elite young athletes », *Med Sport Sci*, 2011, 56: 84-96.
- VALOVICH MCLEOD T. C., DECOSTER L. C., LOUD K. J., MICHELI L. J., PARKER J. T., SANDREY M. A., WHITE C., « National Athletic Trainers' Association position statement: prevention of pediatric overuse injuries », *J Athl Train*, 2011, 46(2): 206-220.
- VESCOVI J. D., VANHEEST J. L., « Effects of an anterior cruciate ligament injury prevention program on performance in adolescent female soccer players », *Scand J Med Sci Sports*, 2010, 20(3): 394-402.
- WALDEN M., ATROSHKI, MAGNUSSON H., WAGNER P., HAGGLUND M., « Prevention of acute knee injuries in adolescent female football players: cluster randomised controlled trial », *BMJ*, 2012, 344: e3042.

## Chapitre 15

- AHMED M. L., ONG K. K., DUNGER D. B., « Childhood obesity and the timing of puberty », *Trends Endocrinol Metab*, 2009, 20(5): 237-242.
- ALBERGA A. S., SIGAL R. J., GOLDFIELD G., PRUD'HOMME D., KENNY G. P., « Overweight and obese teenagers: why is adolescence a critical period? », *Pediatr Obes*, 2012, 7(4): 261-273.
- ATKINSON G., DAVENNE D., « Relationships between sleep, physical activity and human health », *Physiol Behav*, 2007, 90(2-3): 229-235.
- AUCOUTURIER J., DUCHE P., TIMMONS B. W., « Metabolic flexibility and obesity in children and youth », *Obes Rev*, 2011, 12(5): e44-53.
- BAKER B. L., BIRCH L. L., TROST S. G., DAVISON K. K., « Advanced pubertal status at age 11 and lower physical activity in adolescent girls », *J Pediatr*, 2007, 151(5): 488-493.
- BARLOW S. E., EXPERT C., « Expert committee recommendations regarding the prevention, assessment, and treatment of child and adolescent overweight and

## L'enfant et l'activité physique

- obesity: summary report », *Pediatrics*, 2007, 120 Suppl 4: S164-192.
- BIRO F. M., GALVEZ M. P., GREENSPAN L. C., SUCCOP P. A., VANGEEPURAM N., PINNEY S. M., TEITELBAUM S., WINDHAM G. C., KUSHI L. H., WOLFF M. S., « Pubertal assessment method and baseline characteristics in a mixed longitudinal study of girls », *Pediatrics*, 2010, 126(3): e583-590.
  - BIRO F. M., GREENSPAN L. C., GALVEZ M. P., « Puberty in girls of the 21st century », *J Pediatr Adolesc Gynecol*, 2012, 25(5): 289-294.
  - BLUNDELL J. E., KING N. A., « Physical activity and regulation of food intake: current evidence », *Med Sci Sports Exerc*, 1999, 31(11 Suppl): S573-583.
  - BLUNDELL J. E., STUBBS R. J., HUGHES D. A., WHYBROW S., KING N. A., « Cross talk between physical activity and appetite control: does physical activity stimulate appetite? », *Proc Nutr Soc*, 2003, 62(3): 651-661.
  - BOUCHARD C., MALINA R. M., PÉRUSSE L., *Genetics of Fitness and Physical Performance*, Human Kinetics, 1997.
  - BOZINOVSKI N. C., BELLISSIMO N., THOMAS S. G., PENCHARZ P. B., GOODE R. C., ANDERSON G. H., « The effect of duration of exercise at the ventilation threshold on subjective appetite and short-term food intake in 9 to 14 year old boys and girls », *Int J Behav Nutr Phys Act*, 2009, 6: 66.
  - CARREL A. L., CLARK R. R., PETERSON S. E., NEMETH B. A., SULLIVAN J., ALLEN D. B., « Improvement of fitness, body composition, and insulin sensitivity in overweight children in a school-based exercise program: a randomized, controlled study », *Arch Pediatr Adolesc Med*, 2005, 159(10): 963-968.
  - CARVALHAL M. M., PADEZ M. C., MOREIRA P. A., ROSADO V. M., « Overweight and obesity related to activities in Portuguese children, 7-9 years », *Eur J Public Health*, 2007, 17(1): 42-46.
  - CHAPUT J. P., BRUNET M., TREMBLAY A., « Relationship between short sleeping hours and childhood overweight/obesity: results from the 'Quebec en Forme' Project », *Int J Obes (Lond)*, 2006, 30(7): 1080-1085.
  - CHAPUT J. P., KLINGENBERG L., ASTRUP A., SJODIN A. M., « Modern sedentary activities promote overconsumption of food in our current obesogenic environment », *Obes Rev*, 2011, 12(5): e12-20.
  - CHAPUT J. P., SAUNDERS T. J., MATHIEU M. E., HENDERSON M., TREMBLAY M. S., O'LOUGHLIN J., TREMBLAY A., « Combined associations between moderate to vigorous physical activity and sedentary behaviour with cardiometabolic risk factors in children », *Appl Physiol Nutr Metab*, 2013, 38(5): 477-483.
  - CHAPUT J. P., TREMBLAY A., « Does short sleep duration favor abdominal adiposity in children? », *Int J Pediatr Obes*, 2007, 2(3): 188-191.
  - CRAIGIE A. M., LAKE A. A., KELLY S. A., ADAMSON A. J., MATHERS J. C., « Tracking of obesity-related behaviours from childhood to adulthood: A systematic review », *Maturitas*, 2011, 70(3): 266-284.

- DANIELS S. R., KHOURY P. R., MORRISON J. A., « The utility of body mass index as a measure of body fatness in children and adolescents: differences by race and gender », *Pediatrics*, 1997, 99(6): 804-807.
- DAVENNE D., « Activités physiques, sommeil et qualité de vie », *Sommeil et vigilance*, 2006, 15: 8-10.
- DAVIES P. S., GREGORY J., WHITE A., « Physical activity and body fatness in pre-school children », *Int J Obes Relat Metab Disord*, 1995, 19(1): 6-10.
- DAVIS C. L., POLLOCK N. K., WALLER J. L., ALLISON J. D., DENNIS B. A., BASSALI R., MELENDEZ A., BOYLE C. A., GOWER B. A., « Exercise dose and diabetes risk in overweight and obese children: a randomized controlled trial », *JAMA*, 2012, 308(11): 1103-1112.
- DOBBINS M., HUSSON H., DECORBY K., LAROCCA R. L., « School-based physical activity programs for promoting physical activity and fitness in children and adolescents aged 6 to 18 », *Cochrane Database Syst Rev*, 2013, 2: CD007651.
- DONNELLY J. E., KIRK E. P., JACOBSEN D. J., HILL J. O., SULLIVAN D. K., JOHNSON S. L., « Effects of 16 mo of verified, supervised aerobic exercise on macronutrient intake in overweight men and women: the Midwest Exercise Trial », *Am J Clin Nutr*, 2003, 78(5): 950-956.
- EISENMANN J. C., DUBOSE K. D., DONNELLY J. E., « Fatness, fitness, and insulin sensitivity among 7- to 9-year-old children », *Obesity (Silver Spring)*, 2007a, 15(8): 2135-2144.
- EISENMANN J. C., WELK G. J., IHMELS M., DOLLMAN J., « Fatness, fitness, and cardiovascular disease risk factors in children and adolescents », *Med Sci Sports Exerc*, 2007b, 39(8): 1251-1256.
- EKELUND U., AMAN J., YNGVE A., RENMAN C., WESTERTERP K., SJOSTROM M., « Physical activity but not energy expenditure is reduced in obese adolescents: a case-control study », *Am J Clin Nutr*, 2002, 76(5): 935-941.
- ELKS C. E., PERRY J. R., SULEM P., CHASMAN D. I., FRANCESCHINI N., HE C., LUNETA K. L., et coll., « Thirty new loci for age at menarche identified by a meta-analysis of genome-wide association studies », *Nat Genet*, 2010, 42(12): 1077-1085.
- EPSTEIN L. H., VALOSKI A. M., VARA L. S., MCCURLEY J., WISNIEWSKI L., KALAR-CHIAN M. A., KLEIN K. R., SHRAGER L. R., « Effects of decreasing sedentary behavior and increasing activity on weight change in obese children », *Health Psychol*, 1995, 14(2): 109-115.
- FRIEDEMANN C., HENEGHAN C., MAHTANI K., THOMPSON M., PERERA R., WARD A. M., « Cardiovascular disease risk in healthy children and its association with body mass index: systematic review and meta-analysis », *BMJ*, 2012, 345: e4759.
- GANLEY K. J., PATERNO M. V., MILES C., STOUT J., BRAWNER L., GIROLAMI G., WARREN M., « Health-related fitness in children and adolescents », *Pediatr Phys Ther*, 2011, 23(3): 208-220.

## L'enfant et l'activité physique

- GAUDINEAU A., EHLINGER V., VAYSSIERE C., JOURET B., ARNAUD C., GODEAU E., « [Age at onset of menarche: Results from the French Health Behaviour in School-aged Children study] », *Gynecol Obstet Fertil*, 2010, 38(6): 385-387.
- GUPTA N. K., MUELLER W. H., CHAN W., MEININGER J. C., « Is obesity associated with poor sleep quality in adolescents? », *Am J Hum Biol*, 2002, 14(6): 762-768.
- HAUTE AUTORITÉ DE SANTÉ, *Surpoids et obésité de l'enfant et de l'adolescent (actualisation des recommandations 2003)*. Haute Autorité de Santé, 2011.
- HERMAN K. M., CRAIG C. L., GAUVIN L., KATZMARZYK P. T., « Tracking of obesity and physical activity from childhood to adulthood: the Physical Activity Longitudinal Study », *Int J Pediatr Obes*, 2009, 4(4): 281-288.
- HITZE B., BOSY-WESTPHAL A., BIELFELDT F., SETTLER U., PLACHTA-DANIELZIK S., PFEUFFER M., SCHREZENMEIR J., MONIG H., MULLER M. J., « Determinants and impact of sleep duration in children and adolescents: data of the Kiel Obesity Prevention Study », *Eur J Clin Nutr*, 2009, 63(6): 739-746.
- INSERM, *Croissance et puberté: Évolutions séculaires, facteurs environnementaux et génétiques*. Expertise Collective, INSERM, 2007.
- INSERM, *Activité physique. Contextes et effets sur la santé*. Expertise collective, INSERM, 2008.
- JEUKENDRUP A. E., SARIS W. H., WAGENMAKERS A. J., « Fat metabolism during exercise: a review. Part I: fatty acid mobilization and muscle metabolism », *Int J Sports Med*, 1998, 19(4): 231-244.
- JIMENEZ-PAVON D., KELLY J., REILLY J. J., « Associations between objectively measured habitual physical activity and adiposity in children and adolescents: Systematic review », *Int J Pediatr Obes*, 2010, 5(1): 3-18.
- KING N. A., CAUDWELL P., HOPKINS M., BYRNE N. M., COLLEY R., HILLS A. P., STUBBS J. R., BLUNDELL J. E., « Metabolic and behavioral compensatory responses to exercise interventions: barriers to weight loss », *Obesity (Silver Spring)*, 2007, 15(6): 1373-1383.
- KNIGHT J. A., THOMPSON S., RABOUD J. M., HOFFMAN B. R., « Light and exercise and melatonin production in women », *Am J Epidemiol*, 2005, 162(11): 1114-1122.
- KRIEMLER S., HEBESTREIT H., MIKAMI S., BAR-OR T., AYUB B. V., BAR-OR O., « Impact of a single exercise bout on energy expenditure and spontaneous physical activity of obese boys », *Pediatr Res*, 1999, 46(1): 40-44.
- LANDRY B. W., DRISCOLL S. W., « Physical activity in children and adolescents », *PM R*, 2012, 4(11): 826-832.
- LEE J. M., KACIROTI N., APPUGLIESE D., CORWYN R. F., BRADLEY R. H., LUMENG J. C., « Body mass index and timing of pubertal initiation in boys », *Arch Pediatr Adolesc Med*, 2010, 164(2): 139-144.
- LOCARD E., MAMELLE N., BILLETTE A., MIGINIAC M., MUÑOZ F., REY S., « Risk factors of obesity in a five year old population. Parental versus environmental

- factors », *Int J Obes Relat Metab Disord*, 1992, 16(10): 721-729.
- MACKELVIE K. J., MENEILLY G. S., ELAHI D., WONG A. C., BARR S. I., CHANOINE J. P., « Regulation of appetite in lean and obese adolescents after exercise: role of acylated and desacyl ghrelin », *J Clin Endocrinol Metab*, 2007, 92(2): 648-654.
  - MAFFEIS C., ZAFFANELLO M., SCHUTZ Y., « Relationship between physical inactivity and adiposity in prepubertal boys », *J Pediatr*, 1997, 131(2): 288-292.
  - MARTINS C., MORGAN L., TRUBY H., « A review of the effects of exercise on appetite regulation: an obesity perspective », *Int J Obes (Lond)*, 2008, 32(9): 1337-1347.
  - MAYER J., ROY P., MITRA K. P., « Relation between caloric intake, body weight, and physical work: studies in an industrial male population in West Bengal », *Am J Clin Nutr*, 1956, 4(2): 169-175.
  - MEIJER E. P., WESTERTERP K. R., VERSTAPPEN F. T., « Effect of exercise training on total daily physical activity in elderly humans », *Eur J Appl Physiol Occup Physiol*, 1999, 80(1): 16-21.
  - MOORE M. S., DODD C. J., WELSMAN J. R., ARMSTRONG N., « Short-term appetite and energy intake following imposed exercise in 9- to 10-year-old girls », *Appetite*, 2004, 43(2): 127-134.
  - MORIO B., MONTAURIER C., PICKERING G., RITZ P., FELLMANN N., COUDERT J., BEAUFRE RE B., VERMOREL M., « Effects of 14 weeks of progressive endurance training on energy expenditure in elderly people », *Br J Nutr*, 1998, 80(6): 511-519.
  - MUST A., TYBOR D. J., « Physical activity and sedentary behavior: a review of longitudinal studies of weight and adiposity in youth », *Int J Obes (Lond)*, 2005, 29 Suppl 2: S84-96.
  - NAGAI N., MORITANI T., « Effect of physical activity on autonomic nervous system function in lean and obese children », *Int J Obes Relat Metab Disord*, 2004, 28(1): 27-33.
  - NATIONAL SLEEP FOUNDATION, *Sleep in America Poll*, National Sleep Foundation, 2006.
  - NEMET D., ARIELI R., MECKEL Y., ELIAKIM A., « Immediate post-exercise energy intake and macronutrient preferences in normal weight and overweight pre-pubertal children », *Int J Pediatr Obes*, 2010, 5(3): 221-229.
  - NIELSEN L. S., DANIELSEN K. V., SORENSEN T. I., « Short sleep duration as a possible cause of obesity: critical analysis of the epidemiological evidence », *Obes Rev*, 2011, 12(2): 78-92.
  - OMS, « Obesity: preventing and managing the global epidemic. Report of a WHO consultation », *World Health Organ Tech Rep Ser*, 2000, 894: i-xii, 1-253.
  - ORNELAS R. T., SILVA A. M., MINDERICO C. S., SARDINHA L. B., « Changes in cardiorespiratory fitness predict changes in body composition from childhood to adolescence: findings from the European Youth Heart Study », *Phys Sportsmed*, 2011, 39(2): 78-86.

## L'enfant et l'activité physique

- ORTEGA F. B., RUIZ J. R., CASTILLO M. J., SJOSTROM M., « Physical fitness in childhood and adolescence: a powerful marker of health », *Int J Obes (Lond)*, 2008, 32(1): 1-11.
- PAGE A., COOPER A. R., STAMATAKIS E., FOSTER L. J., CROWNE E. C., SABIN M., SHIELD J. P., « Physical activity patterns in nonobese and obese children assessed using minute-by-minute accelerometry », *Int J Obes (Lond)*, 2005, 29(9): 1070-1076.
- PATE R. R., O'NEILL J. R., « Physical activity guidelines for young children: an emerging consensus », *Arch Pediatr Adolesc Med*, 2012, 166(12): 1095-1096.
- PESONEN A. K., SJOSTEN N. M., MATTHEWS K. A., HEINONEN K., MARTIKAINEN S., KAJANTIE E., TAMMELIN T., ERIKSSON J. G., STRANDBERG T., RAIKKONEN K., « Temporal associations between daytime physical activity and sleep in children », *PLoS One*, 2011, 6(8): e22958.
- PHAN T. L., MARESCA M. M., HOSSAIN J., DATTO G. A., « Does body mass index accurately reflect body fat? A comparison of anthropometric measures in the longitudinal assessment of fat mass », *Clin Pediatr (Phila)*, 2012, 51(7): 671-677.
- PNNS, *Activité physique et obésité de l'enfant. Bases pour une prescription adaptée*, Ministère de la Santé, de la Jeunesse, des Sports et de la Vie associative, Association pour la prévention et la prise en charge de l'obésité en pédiatrie. Direction générale de la santé, 2008.
- REILLY J. J., KELLY J., WILSON D. C., « Accuracy of simple clinical and epidemiological definitions of childhood obesity: systematic review and evidence appraisal », *Obes Rev*, 2010, 11(9): 645-655.
- ROWLAND T. W., « The biological basis of physical activity », *Med Sci Sports Exerc*, 1998, 30(3): 392-399.
- RUMBOLD P. L., ST CLAIR GIBSON A., ALLSOP S., STEVENSON E., DODD-REYNOLDS C. J., « Energy intake and appetite following netball exercise over 5 days in trained 13-15 year old girls », *Appetite*, 2011, 56(3): 621-628.
- SAAVEDRA J. M., ESCALANTE Y., GARCIA-HERMOSO A., « Improvement of aerobic fitness in obese children: a meta-analysis », *Int J Pediatr Obes*, 2011, 6(3-4): 169-177.
- SALLIS J. F., PROCHASKA J. J., TAYLOR W. C., « A review of correlates of physical activity of children and adolescents », *Med Sci Sports Exerc*, 2000, 32(5): 963-975.
- SARIS W. H., BLAIR S. N., VAN BAAK M. A., EATON S. B., DAVIES P. S., DI PIETRO L., FOGLERHOLM M., RISSANEN A., SCHOELLER D., SWINBURN B., TREMBLAY A., WESTERTERP K. R., WYATT H., « How much physical activity is enough to prevent unhealthy weight gain? Outcome of the IASO 1st Stock Conference and consensus statement », *Obes Rev*, 2003, 4(2): 101-114.
- SAUSENG W., NAGEL B., GAMILLSCHEG A., AIGNER R., BORKENSTEIN M., ZOTTER H., « Acylated ghrelin increases after controlled short-time exercise in school-aged children », *Scand J Med Sci Sports*, 2011, 21(6): e100-105.
- SEDENTARY-BEHAVIOUR-RESEARCH-NETWORK, « Standardized use of the terms

- “sedentary” and “sedentary behaviours” », *Appl Physiol Nutr Metab*, 2012, 37: 540-542.
- SEEGERS V., PETIT D., FALISSARD B., VITARO F., TREMBLAY R. E., MONTPLAISIR J., TOUCHETTE E., « Short sleep duration and body mass index: a prospective longitudinal study in preadolescence », *Am J Epidemiol*, 2011, 173(6): 621-629.
  - SHI Z., TAYLOR A. W., GILL T. K., TUCKERMAN J., ADAMS R., MARTIN J., « Short sleep duration and obesity among Australian children », *BMC Public Health*, 2010, 10: 609.
  - STETTLER N., SIGNER T. M., SUTER P. M., « Electronic games and environmental factors associated with childhood obesity in Switzerland », *Obes Res*, 2004, 12(6): 896-903.
  - STIGMAN S., RINTALA P., KUKKONEN-HARJULA K., KUJALA U., RINNE M., FOGL-HOLM M., « Eight-year-old children with high cardiorespiratory fitness have lower overall and abdominal fatness », *Int J Pediatr Obes*, 2009, 4(2): 98-105.
  - SWINBURN B., SHELLY A., « Effects of TV time and other sedentary pursuits », *Int J Obes (Lond)*, 2008, 32 Suppl 7: S132-136.
  - TAHERI S., LIN L., AUSTIN D., YOUNG T., MIGNOT E., « Short sleep duration is associated with reduced leptin, elevated ghrelin, and increased body mass index », *PLoS Med*, 2004, 1(3): e62.
  - TAMAM S., BELLISSIMO N., PATEL B. P., THOMAS S. G., ANDERSON G. H., « Overweight and obese boys reduce food intake in response to a glucose drink but fail to increase intake in response to exercise of short duration », *Appl Physiol Nutr Metab*, 2012, 37(3): 520-529.
  - TAVERAS E. M., FIELD A. E., BERKEY C. S., RIFAS-SHIMAN S. L., FRAZIER A. L., COLDITZ G. A., GILLMAN M. W., « Longitudinal relationship between television viewing and leisure-time physical activity during adolescence », *Pediatrics*, 2007, 119(2): e314-319.
  - TELAMA R., « Tracking of physical activity from childhood to adulthood: a review », *Obes Facts*, 2009, 2(3): 187-195.
  - TERMAN L. M., HOCKING A., « The sleep of schoolchildren: its distribution according to age and its relation to physical and mental efficiency », *J Educ Psychol*, 1913, 4: 138-147.
  - THIVEL D., AUCOUTURIER J., DOUCET E., SAUNDERS T. J., CHAPUT J. P., « Daily energy balance in children and adolescents: does energy expenditure predict subsequent energy intake? », *Appetite*, 2013a, 60: 58-64.
  - THIVEL D., AUCOUTURIER J., METZ L., MORIO B., DUCHE P., « Is there spontaneous energy expenditure compensation in response to intensive exercise in obese youth? », *Pediatr Obes*, 2013b.
  - THIVEL D., BLUNDELL J. E., DUCHE P., MORIO B., « Acute exercise and subsequent nutritional adaptations: what about obese youths? », *Sports Med*, 2012a, 42(7): 607-613.

## L'enfant et l'activité physique

- THIVEL D., DUCHÉ P., MORIO B., « Energy intake and appetite response to acute short duration exercise in obese youths », *Appl Physiol Nutr Metab*, 2012b, 37(5): 1014-1015.
- THIVEL D., ISACCO L., MONTAURIER C., BOIRIE Y., DUCHE P., MORIO B., « The 24-h energy intake of obese adolescents is spontaneously reduced after intensive exercise: a randomized controlled trial in calorimetric chambers », *PLoS One*, 2012c, 7(1): e29840.
- THIVEL D., ISACCO L., ROUSSET S., BOIRIE Y., MORIO B., DUCHE P., « Intensive exercise: a remedy for childhood obesity? », *Physiol Behav*, 2011a, 102(2): 132-136.
- THIVEL D., ISACCO L., TAILLARDAT M., ROUSSET S., BOIRIE Y., MORIO B., DUCHE P., « Gender effect on exercise-induced energy intake modification among obese adolescents », *Appetite*, 2011b, 56(3): 658-661.
- THIVEL D., SAUNDERS T. J., CHAPUT J. P., « Physical activity in children and youth may have a greater impact on energy intake than energy expenditure », *Journal of Nutrition Education and Behavior*, 2012d, in press.
- TOLSON K. P., CHAPPELL P. E., « The Changes They are A-Timed: Metabolism, Endogenous Clocks, and the Timing of Puberty », *Front Endocrinol (Lausanne)*, 2012, 3: 45.
- TOMKINSON G. R., LEGER L. A., OLDS T. S., CAZORLA G., « Secular trends in the performance of children and adolescents (1980-2000): an analysis of 55 studies of the 20m shuttle run test in 11 countries », *Sports Med*, 2003, 33(4): 285-300.
- TOMKINSON G. R., OLDS T. S., *Pediatric Fitness: secular trends and geographic variability*, Karger, 2007.
- TREMBLAY M. S., WARBURTON D. E., JANSSEN I., PATERSON D. H., LATIMER A. E., RHODES R. E., KHO M. E., HICKS A., LEBLANC A. G., ZEHR L., MURUMETS K., DUGGAN M., « New Canadian physical activity guidelines », *Appl Physiol Nutr Metab*, 2011, 36(1): 36-46; 47-58.
- TROST S. G., KERR L. M., WARD D. S., PATE R. R., « Physical activity and determinants of physical activity in obese and non-obese children », *Int J Obes Relat Metab Disord*, 2001, 25(6): 822-829.
- VAN CAUTER E., SPIEGEL K., TASALI E., LEPROULT R., « Metabolic consequences of sleep and sleep loss », *Sleep Med*, 2008, 9 Suppl 1: S23-28.
- WANG X., NICKLAS B. J., « Acute impact of moderate-intensity and vigorous-intensity exercise bouts on daily physical activity energy expenditure in postmenopausal women », *J Obes*, 2011, 2011(pi: 342431.).
- WAREHAM N. J., VAN SLUIJS E. M., EKELUND U., « Physical activity and obesity prevention: a review of the current evidence », *Proc Nutr Soc*, 2005, 64(2): 229-247.
- WATERS E., DE SILVA-SANIGORSKI A., HALL B. J., BROWN T., CAMPBELL K. J., GAO Y., ARMSTRONG R., PROSSER L., SUMMERBELL C. D., « Interventions for preventing obesity in children », *Cochrane Database Syst Rev*, 2011, (12): CD001871.

- WILKIN T. J., MALLAM K. M., METCALF B. S., JEFFERY A. N., VOSS L. D., « Variation in physical activity lies with the child, not his environment: evidence for an 'activitystat' in young children (EarlyBird 16) », *Int J Obes (Lond)*, 2006, 30(7): 1050-1055.
- WOLL A., WORTH A., MUENDERMAN A., HOLLING H., JEKAUC D., BOS K., « Age- and sex-dependent disparity in physical fitness between obese and normalweight children and adolescents », *J Sports Med Phys Fitness*, 2013, 53(1): 48-55.
- YOUNGSTEDT S. D., KLINE C. E., « Epidemiology of exercise and sleep », *Sleep Biol Rhythms*, 2006, 4: 215-221.
- Chap. 15, section 5-1 : les directives canadiennes de 2011 préconisent de limiter à 2 h par jour le temps passé devant un écran pour l'enfant de 5 à 17 ans. (pour en savoir plus : <http://www.csep.ca/Francais/>)

## **Chapitre 16**

- ADMON G., WEINSTEIN Y., FALK B., WEINTROB N., BENZAQUEN H., OFAN R., FAYMAN G., ZIGEL L., CONSTANTINI N., PHILLIP M., « Exercise with and without an insulin pump among children and adolescents with type 1 diabetes mellitus », *Pediatrics*, 2005, 116(3): e348-355.
- ADOLFSSON P., NILSSON S., ALBERTSSON-WIKLAND K., LINDBLAD B., « Hormonal response during physical exercise of different intensities in adolescents with type 1 diabetes and healthy controls », *Pediatr Diabetes*, 2012, 13(8): 587-596.
- AMIEL S. A., TAMBORLANE W. V., SACCA L., SHERWIN R. S., « Hypoglycemia and glucose counterregulation in normal and insulin-dependent diabetic subjects », *Diabetes Metab Rev*, 1988, 4(1): 71-89.
- AOUADI R., KHALIFA R., AOUIDET A., BEN MANSOUR A., BEN RAYANA M., MDINI F., BAHRI S., STRATTON G., « Aerobic training programs and glycemic control in diabetic children in relation to exercise frequency », *J Sports Med Phys Fitness*, 2011, 51(3): 393-400.
- ARSLANIAN S., NIXON P. A., BECKER D., DRASH A. L., « Impact of physical fitness and glycemic control on in vivo insulin action in adolescents with IDDM », *Diabetes Care*, 1990, 13(1): 9-15.
- BAEVRE H., SOVIK O., WISNES A., HEIERVANG E., « Metabolic responses to physical training in young insulin-dependent diabetics », *Scand J Clin Lab Invest*, 1985, 45(2): 109-114.
- BRAZEAU A. S., RABASA-LHORET R., STRYCHAR I., MIRCESCU H., « Barriers to physical activity among patients with type 1 diabetes », *Diabetes Care*, 2008, 31(11): 2108-2109.
- BRUN J.-F., MARTI B., FÉDOU C., FARRÉ A., RENARD E., PLACE J., MERCIER J., « La baisse de la glycémie à l'exercice en plateau chez le diabétique insuliné est déterminée par la glycémie de départ et l'insulinémie. », *Sci Sports*, 2012, 27(2): 111-114.
- BUSSAU V. A., FERREIRA L. D., JONES T. W., FOURNIER P. A., « The 10-s maximal

## L'enfant et l'activité physique

sprint: a novel approach to counter an exercise-mediated fall in glycemia in individuals with type 1 diabetes », *Diabetes Care*, 2006, 29(3): 601-606.

- D'HOOGE R., HELLINCKX T., VAN LAETHEM C., STEGEN S., DE SCHEPPER J., VAN AKEN S., DEWOLF D., CALDERS P., « Influence of combined aerobic and resistance training on metabolic control, cardiovascular fitness and quality of life in adolescents with type 1 diabetes: a randomized controlled trial », *Clin Rehabil*, 2011, 25(4): 349-359.
- DORCHY H., POORTMANS J., « [Sports and diabetes in children and adolescents] », *Ann Pediatr (Paris)*, 1991, 38(4): 217-223.
- FAULKNER M. S., MICHALISZYN S. F., HEPWORTH J. T., « A personalized approach to exercise promotion in adolescents with type 1 diabetes », *Pediatr Diabetes*, 2010, 11(3): 166-174.
- FINTINI D., DI GIACINTO B., BRUFANI C., CAFIERO G., PATERA P. I., TURCHETTA A., GIORDANO U., NOBILI V., PELLICCIA A., CALZOLARI A., CAPPA M., « Impaired energy expenditure despite normal cardiovascular capacity in children with type 1 diabetes », *Horm Res Paediatr*, 2012, 78(1): 1-7.
- GAUTIER J. F., BERNE C., GRIMM J. J., LOBEL B., COLICHE V., MOLLET E., « [Physical activity and diabetes] », *Diabetes Metab*, 1998, 24(3): 281-290.
- GUELFI K. J., JONES T. W., FOURNIER P. A., « The decline in blood glucose levels is less with intermittent high-intensity compared with moderate exercise in individuals with type 1 diabetes », *Diabetes Care*, 2005, 28(6): 1289-1294.
- GUELFI K. J., RATNAM N., SMYTHE G. A., JONES T. W., FOURNIER P. A., « Effect of intermittent high-intensity compared with continuous moderate exercise on glucose production and utilization in individuals with type 1 diabetes », *Am J Physiol Endocrinol Metab*, 2007, 292(3): E865-870.
- HEDING L. G., LUDVIGSSON J., « B-cell response to exercise in diabetic and non-diabetic children », *Acta Paediatr Scand Suppl*, 1980, 283: 57-61.
- HEYMAN E., BERTHON P., YOUSSEF H., DELAMARCHE A., BRIARD D., GAMELIN F. X., DELAMARCHE P., DE KERDANET M., « Metabolic dysfunction in late-puberty adolescent girls with type 1 diabetes: relationship to physical activity and dietary intakes », *Diabetes Metab*, 2012, 38(4): 337-342.
- HEYMAN E., BRIARD D., DEKERDANET M., GRATAS-DELAMARCHE A., DELAMARCHE P., « Accuracy of physical working capacity 170 to estimate aerobic fitness in prepubertal diabetic boys and in 2 insulin dose conditions », *J Sports Med Phys Fitness*, 2006, 46(2): 315-321.
- HEYMAN E., BRIARD D., GRATAS-DELAMARCHE A., DELAMARCHE P., DE KERDANET M., « Normal physical working capacity in prepubertal children with type 1 diabetes compared with healthy controls », *Acta Paediatr*, 2005, 94(10): 1389-1394.
- HEYMAN E., DELAMARCHE P., BERTHON P., MEEUSEN R., BRIARD D., VINCENT S., DEKERDANET M., DELAMARCHE A., « Alteration in sympathoadrenergic activity

- at rest and during intense exercise despite normal aerobic fitness in late pubertal adolescent girls with type 1 diabetes », *Diabetes Metab*, 2007a, 33(6): 422-429.
- HEYMAN E., TOUTAIN C., DELAMARCHE P., BERTHON P., BRIARD D., YOUSSEF H., DEKERDANET M., GRATAS-DELAMARCHE A., « Exercise training and cardiovascular risk factors in type 1 diabetic adolescent girls », *Pediatr Exerc Sci*, 2007b, 19(4): 408-419.
  - IAFUSCO D., « Diet and physical activity in patients with type 1 diabetes », *Acta Biomed*, 2006, 77 Suppl 1: 41-46.
  - ISCOE K. E., RIDDELL M. C., « Continuous moderate-intensity exercise with or without intermittent high-intensity work: effects on acute and late glycaemia in athletes with Type 1 diabetes mellitus », *Diabet Med*, 2011, 28(7): 824-832.
  - JAKOBER B., SCHMULLING R. M., EGGSTEIN M., « Carbohydrate and lipid metabolism in type I diabetics during exhaustive exercise », *Int J Sports Med*, 1983, 4(2): 104-108.
  - KJAER M., HOLLENBECK C. B., FREY-HEWITT B., GALBO H., HASSELL W., REAVEN G. M., « Glucoregulation and hormonal responses to maximal exercise in non-insulin-dependent diabetes », *J Appl Physiol*, 1990, 68(5): 2067-2074.
  - KRISKA A. M., LAPORTE R. E., PATRICK S. L., KULLER L. H., ORCHARD T. J., « The association of physical activity and diabetic complications in individuals with insulin-dependent diabetes mellitus: the Epidemiology of Diabetes Complications Study--VII », *J Clin Epidemiol*, 1991, 44(11): 1207-1214.
  - LANDT K. W., CAMPAIGNE B. N., JAMES F. W., SPERLING M. A., « Effects of exercise training on insulin sensitivity in adolescents with type 1 diabetes », *Diabetes Care*, 1985, 8(5): 461-465.
  - LUKACS A., MAYER K., JUHASZ E., VARGA B., FODOR B., BARKAI L., « Reduced physical fitness in children and adolescents with type 1 diabetes », *Pediatr Diabetes*, 2012, 13(5): 432-437.
  - MAGGIO A. B., RIZZOLI R. R., MARCHAND L. M., FERRARI S., BEGHETTI M., FARPOUR-LAMBERT N. J., « Physical activity increases bone mineral density in children with type 1 diabetes », *Med Sci Sports Exerc*, 2012, 44(7): 1206-1211.
  - MARRONE S., PLUME J. W., KERR P., PIGNOL A., VOGETANZ-HOLM N., HOLM J., LARSEN M. A., « The role of free-play physical activity in healthy blood glucose maintenance in children with type 1 diabetes mellitus », *Psychol Health Med*, 2009, 14(1): 48-52.
  - MICHALISZYN S. F., FAULKNER M. S., « Physical activity and sedentary behavior in adolescents with type 1 diabetes », *Res Nurs Health*, 2010, 33(5): 441-449.
  - MOSHER P. E., NASH M. S., PERRY A. C., LAPERRIERE A. R., GOLDBERG R. B., « Aerobic circuit exercise training: effect on adolescents with well-controlled insulin-dependent diabetes mellitus », *Arch Phys Med Rehabil*, 1998, 79(6): 652-657.
  - O'NEILL J. R., LIESE A. D., MCKEOWN R. E., CAI B., CUFFE S. P., MAYER-DAVIS E. J.,

## L'enfant et l'activité physique

- HAMMAN R. F., DABELEA D., « Physical activity and self-concept: the SEARCH for diabetes in youth case control study », *Pediatr Exerc Sci*, 2012, 24(4): 577-588.
- PEIRCE N. S., « Diabetes and exercise », *Br J Sports Med*, 1999, 33(3): 161-172; quiz 172-163, 222.
  - POORTMANS J. R., SAERENS P., EDELMAN R., VERTONGEN F., DORCHY H., « Influence of the degree of metabolic control on physical fitness in type I diabetic adolescents », *Int J Sports Med*, 1986, 7(4): 232-235.
  - RABASA-LHORET R., BOURQUE J., DUCROS F., CHIASSON J. L., « Guidelines for premeal insulin dose reduction for postprandial exercise of different intensities and durations in type 1 diabetic subjects treated intensively with a basal-bolus insulin regimen (ultralente-lispro) », *Diabetes Care*, 2001, 24(4): 625-630.
  - RAMALHO A. C., DE LOURDES LIMA M., NUNES F., CAMBUI Z., BARBOSA C., ANDRADE A., VIANA A., MARTINS M., ABRANTES V., ARAGAO C., TEMISTOCLES M., « The effect of resistance versus aerobic training on metabolic control in patients with type-1 diabetes mellitus », *Diabetes Res Clin Pract*, 2006.
  - RIDDELL M. C., ISCOE K. E., « Physical activity, sport, and pediatric diabetes », *Pediatr Diabetes*, 2006, 7(1): 60-70.
  - SANDOVAL D. A., GUY D. L., RICHARDSON M. A., ERTL A. C., DAVIS S. N., « Effects of low and moderate antecedent exercise on counterregulatory responses to subsequent hypoglycemia in type 1 diabetes », *Diabetes*, 2004, 53(7): 1798-1806.
  - SCHWEIGER B., KLINGENSMITH G., SNELL-BERGEON J. K., « Physical activity in adolescent females with type 1 diabetes », *Int J Pediatr*, 2010, 2010: 328318.
  - SEEGER J. P., THIJSSSEN D. H., NOORDAM K., CRANEN M. E., HOPMAN M. T., NIJHUIS-VAN DER SANDEN M. W., « Exercise training improves physical fitness and vascular function in children with type 1 diabetes », *Diabetes Obes Metab*, 2011, 13(4): 382-384.
  - SUNDBERG F., FORSANDER G., FASTH A., EKELUND U., « Children younger than 7 years with type 1 diabetes are less physically active than healthy controls », *Acta Paediatr*, 2012, 101(11): 1164-1169.
  - SZMIGIEL C., DZIADKOWIAK H., JESIONEK D., GASIOROWSKA M., WOJTAS M., CEMPLA J., « [The influence of physical effort of variable intensity on glycemia in children with diabetes] », *Pediatr Pol*, 1996, 71(5): 423-430.
  - TAPLIN C. E., COBRY E., MESSER L., MCFANN K., CHASE H. P., FIALLO-SCHARER R., « Preventing post-exercise nocturnal hypoglycemia in children with type 1 diabetes », *J Pediatr*, 2010, 157(5): 784-788 e781.
  - TORRES-TAMAYO M., PEREZ-PASTEN L. E., BARRON-URIBE C., HERMIDA-GUTIERREZ I., ZAMORA-GONZALEZ J., CARDOSO-SALDANA G., POSADAS-ROMERO C., « Improved metabolic control does not change plasma lipoprotein(a) levels in adolescents with type 1 diabetes mellitus », *Arch Med Res*, 1998, 29(4): 307-312.
  - TSALIKIAN E., KOLLMAN C., TAMBORLANE W. B., BECK R. W., FIALLO-SCHARER

- R., FOX L., JANZ K. F., RUEDY K. J., WILSON D., XING D., WEINZIMER S. A., « Prevention of hypoglycemia during exercise in children with type 1 diabetes by suspending basal insulin », *Diabetes Care*, 2006, 29(10): 2200-2204.
- WOO J., YEO N. H., SHIN K. O., LEE H. J., YOO J., KANG S., « Antioxidant enzyme activities and DNA damage in children with type 1 diabetes mellitus after 12 weeks of exercise », *Acta Paediatr*, 2010, 99(8): 1263-1268.
  - YARDLEY J. E., KENNY G. P., PERKINS B. A., RIDDELL M. C., MALCOLM J., BOULAY P., KHANDWALA F., SIGAL R. J., « Effects of performing resistance exercise before versus after aerobic exercise on glycemia in type 1 diabetes », *Diabetes Care*, 2012, 35(4): 669-675.
  - ZORZANO A., PALACIN M., GUMA A., « Mechanisms regulating GLUT4 glucose transporter expression and glucose transport in skeletal muscle », *Acta Physiol Scand*, 2005, 183(1): 43-58.

## **Chapitre 17**

- AGENCE MONDIALE ANTIDOPAGE, « Liste des interdictions 2013 », <http://www.wada-ama.org>, 2013.
- ANDERSON S. D., « The prevention of exercise-induced bronchoconstriction: what are the options? », *Expert Rev Respir Med*, 2012, 6(4): 355-357.
- ANDERSON S. D., CAILLAUD C., BRANNAN J. D., « Beta2-agonists and exercise-induced asthma », *Clin Rev Allergy Immunol*, 2006, 31(2-3): 163-180.
- ANDERSON S. D., DAVISKAS E., « The mechanism of exercise-induced asthma is », *J Allergy Clin Immunol*, 2000, 106(3): 453-459.
- BABB T. G., « Mechanical ventilatory constraints in aging, lung disease, and obesity: perspectives and brief review », *Med Sci Sports Exerc*, 1999, 31(1 Suppl): S12-22.
- BARAK A., WEXLER I. D., EFRATI O., BENTUR L., AUGARTEN A., MUSSAFFI H., AVITAL A., RIVLIN J., AVIRAM M., YAHAV Y., KEREM E., « Trampoline use as physiotherapy for cystic fibrosis patients », *Pediatr Pulmonol*, 2005, 39(1): 70-73.
- BELLIS G., CAZES M., LEMONNIER L., SPONGA M., *Registre français de la mucoviscidose - Bilan des données 2010, Vaincre la Mucoviscidose - Ined*, 2012.
- BERNARD A., CARBONNELLE S., DE BURBURE C., MICHEL O., NICKMILDER M., « Chlorinated pool attendance, atopy, and the risk of asthma during childhood », *Environ Health Perspect*, 2006, 114(10): 1567-1573.
- BIENVENU T., « Cystic fibrosis: relationship between genotype and phenotype », *Arch Pediatrie*, 2003, 10(Suppl 2): 318s-324s.
- BLANC F. X., POSTEL-VINAY N., BOUCOT I., DE BLIC J., SCHIENMANN P., « Etude AIRE : analyse des données recueillies chez 753 enfants asthmatiques en Europe », *Rev Mal Respir*, 2002, 19: 585-592.
- BLAU H., MUSSAFFI-GEORGY H., FINK G., KAYE C., SZEINBERG A., SPITZER S. A., YAHAV J., « Effects of an intensive 4-week summer camp on cystic fibrosis: pulmo-

## L'enfant et l'activité physique

- nary function, exercise tolerance, and nutrition », *Chest*, 2002, 121(4): 1117-1122.
- BOREL B., LECLAIR E., THEVENET D., BEGHIN L., GOTTRAND F., FABRE C., « Mechanical ventilatory constraints during incremental exercise in healthy and cystic fibrosis children. », *Pediatr Pulmonol*, In press, : In press.
  - BOUCHER R. C., « Regulation of airway surface liquid volume by human airway epithelia », *Pflugers Arch*, 2003, 445(4): 495-498.
  - BOUGAULT V., RASSENEUR L., DOUTRELEAU S., OSWALD-MAMMOSSER M., « Intérêts d'une activité physique en piscine chez l'asthmatique », *Sci Sports*, 2004, 20(1): 1-11.
  - BOUSQUET J., JEFFERY P. K., BUSSE W. W., JOHNSON M., VIGNOLA A. M., « Asthma. From bronchoconstriction to airways inflammation and remodeling », *Am J Respir Crit Care Med*, 2000, 161(5): 1720-1745.
  - BROWN R. K., WYATT H., PRICE J. F., KELLY F. J., « Pulmonary dysfunction in cystic fibrosis is associated with oxidative stress », *Eur Respir J*, 1996, 9(2): 334-339.
  - CARDONA I., D'ALONZO G. E., Jr., BECKER J., « A pilot survey of beta2-agonist inhaler availability for children with asthma during organized sporting events », *Ann Allergy Asthma Immunol*, 2004, 92(3): 340-343.
  - CARLSEN K. H., ENGH G., MORK M., « Exercise-induced bronchoconstriction depends on exercise load », *Respir Med*, 2000, 94(8): 750-755.
  - CERNY F. J., PULLANO T. P., CROPP G. J., « Cardiorespiratory adaptations to exercise in cystic fibrosis », *Am Rev Respir Dis*, 1982, 126(2): 217-220.
  - CHANDRATILLEKE M. G., CARSON K. V., PICOT J., BRINN M. P., ESTERMAN A. J., SMITH B. J., « Physical training for asthma », *Cochrane Database Syst Rev*, 2012, 5: CD001116.
  - CHANG Y. F., YANG Y. H., CHEN C. C., CHIANG B. L., « Tai Chi Chuan training improves the pulmonary function of asthmatic children », *J Microbiol Immunol Infect*, 2008, 41(1): 88-95.
  - CHENG B. L., HUANG Y., SHU C., LOU X. L., FU Z., ZHAO J., « A cross-sectional survey of participation of asthmatic children in physical activity », *World J Pediatr*, 2010, 6(3): 238-243.
  - CHIANG L. C., HUANG J. L., FU L. S., « Physical activity and physical self-concept: comparison between children with and without asthma », *J Adv Nurs*, 2006, 54(6): 653-662.
  - CHINELLATO I., PIAZZA M., SANDRI M., PERONI D. G., CARDINALE F., PIACENTINI G. L., BONER A. L., « Serum vitamin D levels and exercise-induced bronchoconstriction in children with asthma », *Eur Respir J*, 2011, 37(6): 1366-1370.
  - COATES A. L., BOYCE P., MULLER D., MEARNS M., GODFREY S., « The role of nutritional status, airway obstruction, hypoxia, and abnormalities in serum lipid composition in limiting exercise tolerance in children with cystic fibrosis », *Acta Paediatr Scand*, 1980, 69(3): 353-358.

- COATES A. L., CANNY G., ZINMAN R., GRISDALE R., DESMOND K., ROUMELIOTIS D., LEVISON H., « The effects of chronic airflow limitation, increased dead space, and the pattern of ventilation on gas exchange during maximal exercise in advanced cystic fibrosis », *Am Rev Respir Dis*, 1988, 138(6): 1524-1531.
- CONN K. M., HERNANDEZ T., PUTHOOR P., FAGNANO M., HALTERMAN J. S., « Screen time use among urban children with asthma », *Acad Pediatr*, 2009, 9(1): 60-63.
- CORREIA M. A., Jr., RIZZO J. A., SARINHO S. W., CAVALCANTI SARINHO E. S., MEDEIROS D., ASSIS F., « Effect of exercise-induced bronchospasm and parental beliefs on physical activity of asthmatic adolescents from a tropical region », *Ann Allergy Asthma Immunol*, 2012, 108(4): 249-253.
- COUNIL F. P., KARILA C., VARRAY A., GUILLAUMONT S., VOISIN M., PREFAUT C., « Anaerobic fitness in children with asthma: adaptation to maximal intermittent short exercise », *Pediatr Pulmonol*, 2001, 31(3): 198-204.
- COUNIL F. P., VARRAY A., KARILA C., HAYOT M., VOISIN M., PREFAUT C., « Wingate test performance in children with asthma: aerobic or anaerobic limitation? », *Med Sci Sports Exerc*, 1997, 29(4): 430-435.
- COUNIL F. P., VARRAY A., MATECKI S., BEUREY A., MARCHAL P., VOISIN M., PREFAUT C., « Training of aerobic and anaerobic fitness in children with asthma », *J Pediatr*, 2003, 142(2): 179-184.
- CROSBIE A., « The effect of physical training in children with asthma on pulmonary function, aerobic capacity and health-related quality of life: a systematic review of randomized control trials », *Pediatr Exerc Sci*, 2012, 24(3): 472-489.
- CYSTIC FIBROSIS MUTATION DATABASE, « Cystic Fibrosis Mutation Database Statistics », <http://www.genet.sickkids.on.ca/StatisticsPage.html>, 2012.
- DE BISSCHOP C., GUENARD H., DESNOT P., VERGERET J., « Reduction of exercise-induced asthma in children by short, repeated warm ups », *Br J Sports Med*, 1999, 33(2): 100-104.
- DE MEER K., JENESON J. A., GULMANS V. A., VAN DER LAAG J., BERGER R., « Efficiency of oxidative work performance of skeletal muscle in patients with cystic fibrosis », *Thorax*, 1995, 50(9): 980-983.
- DEBROCK C., MENETREY C., BONAVENT M., ANTONINI M. T., PREUX P. M., BONNAUD F., VERGNENEGRE A., « [Prevalence of exercise-induced asthma in school children] », *Rev Epidemiol Sante Publique*, 2002, 50(6): 519-529.
- DELMAS M. C., GUIGNON N., LEYNAERT B., ANNESI-MAESANO I., COM-RUELLE L., GONZALEZ L., FUHRMAN C., « [Prevalence and control of asthma in young children in France] », *Rev Mal Respir*, 2012, 29(5): 688-696.
- DIMITRAKAKI V., PORPODIS K., BEBETSOS E., ZAROGOULIDIS P., PAPAIWANNOU A., TSIOURA T., TSIOLIS H., ZAROGOULIDIS K., « Attitudes of asthmatic and nonasthmatic children to physical exercise », *Patient Prefer Adherence*, 2013, 7: 81-88.

## L'enfant et l'activité physique

- DOMMERGUES M., AYME S., JANIAUD P., SEROR V., *Diagnostic prénatal: Pratiques et enjeux*, INSERM, 2003.
- EIJKEMANS M., MOMMERS M., DE VRIES S. I., VAN BUUREN S., STAFLEU A., BAKKER I., THIJS C., « Asthmatic symptoms, physical activity, and overweight in young children: a cohort study », *Pediatrics*, 2008, 121(3): e666-672.
- EIJKEMANS M., MOMMERS M., DRAAISMA J. M., THIJS C., PRINS M. H., « Physical activity and asthma: a systematic review and meta-analysis », *PLoS One*, 2012, 7(12): e50775.
- ELKIN S. L., WILLIAMS L., MOORE M., HODSON M. E., RUTHERFORD O. M., « Relationship of skeletal muscle mass, muscle strength and bone mineral density in adults with cystic fibrosis », *Clin Sci (Lond)*, 2000, 99(4): 309-314.
- FEUILLET-DASSONVAL C., GAGNAYRE R., ROSSIGNOL B., BIDAT E., STHENEUR C., « [Written asthma action plans: a useful tool for self-management] », *Arch Pediatr*, 2005, 12(12): 1788-1796.
- FIRRINCIELI V., KELLER A., EHRENSBERGER R., PLATTS-MILLS J., SHUFFLEBARGER C., GELDMAKER B., PLATTS-MILLS T., « Decreased physical activity among Head Start children with a history of wheezing: use of an accelerometer to measure activity », *Pediatr Pulmonol*, 2005, 40(1): 57-63.
- FITCH K. D., « An overview of asthma and airway hyper-responsiveness in olympic athletes », *Sports Med*, 2012, 46(6): 413-416.
- GIBSON R. L., BURNS J. L., RAMSEY B. W., « Pathophysiology and management of pulmonary infections in cystic fibrosis », *Am J Respir Crit Care Med*, 2003, 168(8): 918-951.
- GIRODON-BOULANDET E., COSTA C., « Génétique de la mucoviscidose. Médecine Thérapeutique », *Pédiatrie*, 2005, 8(3): 126-134.
- GLAZEBROOK C., MCPHERSON A. C., MACDONALD I. A., SWIFT J. A., RAMSAY C., NEWBOULD R., SMYTH A., « Asthma as a barrier to children's physical activity: implications for body mass index and mental health », *Pediatrics*, 2006, 118(6): 2443-2449.
- GODFREY S., MEARNS M., « Pulmonary function and response to exercise in cystic fibrosis », *Arch Dis Child*, 1971, 46(246): 144-151.
- GOETGHEBEUR D., SARNI D., GROSSI Y., LEROYER C., GHEZZO H., MILIC-EMIRI J., BELLET M., « Tidal expiratory flow limitation and chronic dyspnoea in patients with cystic fibrosis », *Eur Respir J*, 2002, 19(3): 492-498.
- GRUBER W., ORENSTEIN D. M., BRAUMANN K. M., HULS G., « Health-related fitness and trainability in children with cystic fibrosis », *Pediatr Pulmonol*, 2008, 43(10): 953-964.
- GULMANS V. A., DE MEER K., BRACKEL H. J., FABER J. A., BERGER R., HELDERS P. J., « Outpatient exercise training in children with cystic fibrosis: physiological effects, perceived competence, and acceptability », *Pediatr Pulmonol*, 1999, 28(1): 39-46.

- GULMANS V. A., DE MEER K., BRACKEL H. J., HELDERS P. J., « Maximal work capacity in relation to nutritional status in children with cystic fibrosis », *Eur Respir J*, 1997, 10(9): 2014-2017.
- HALLSTRAND T. S., BATES P. W., SCHOENE R. B., « Aerobic conditioning in mild asthma decreases the hyperpnea of exercise and improves exercise and ventilatory capacity », *Chest*, 2000, 118(5): 1460-1469.
- HIND K., TRUSCOTT J. G., CONWAY S. P., « Exercise during childhood and adolescence: a prophylaxis against cystic fibrosis-related low bone mineral density? Exercise for bone health in children with cystic fibrosis », *J Cyst Fibros*, 2008, 7(4): 270-276.
- HOLSCLAW D. S., Jr., « Cystic fibrosis and pulmonary involvement from multiple perspectives », *Semin Respir Infect*, 1992, 7(3): 141-149.
- HULZEBOS H. J., SNIEDER H., VAN DER ET J., HELDERS P. J., TAKKEN T., « High-intensity interval training in an adolescent with cystic fibrosis: a physiological perspective », *Physiother Theory Pract*, 2011, 27(3): 231-237.
- KARILA C. « Asthme induit par l'exercice ». In: DUTAU G., *Actualités en pneumologie et en allergologie*, Paris, Elsevier, 2002, 38-43.
- KARILA C., FUCHS-CLIMENT D., CLAIRICIA M., LEBORGNE P., SALORT M., DE BLIC J., SCHEINMANN P., « [Practical advice for exercise-induced asthma in children: experience of the exercise training centre of Necker-Enfants malades hospital] », *Arch Pediatr*, 2005, 12(1): 105-109.
- KERSTEN E. T., VAN LEEUWEN J. C., BRAND P. L., DUIVERMAN E. J., DE JONGH F. H., THIO B. J., DRIESSEN J. M., « Effect of an intranasal corticosteroid on exercise induced bronchoconstriction in asthmatic children », *Pediatr Pulmonol*, 2012, 47(1): 27-35.
- KIM J. W., SO W. Y., KIM Y. S., « Association between asthma and physical activity in Korean adolescents: the 3rd Korea Youth Risk Behavior Web-based Survey (KYRBWS-III) », *Eur J Public Health*, 2012, 22(6): 864-868.
- KLIJN P. H., OUDSHOORN A., VAN DER ENT C. K., VAN DER NET J., KIMPEN J. L., HELDERS P.J., « Effects of anaerobic training in children with cystic fibrosis: a randomized controlled study », *Chest*, 2004, 125(4): 1299-1305.
- KLIJN P. H., VAN DER NET J., KIMPEN J. L., HELDERS P.J., VAN DER ENT C. K., « Longitudinal determinants of peak aerobic performance in children with cystic fibrosis », *Chest*, 2003, 124(6): 2215-2219.
- KOSTI R. I., PRIFTIS K. N., ANTHRACOPOULOS M. B., PAPADIMITRIOU A., GRIGOROPOULOU D., LENTZAS Y., YFANTI K., PANAGIOTAKOS D. B., « The association between leisure-time physical activities and asthma symptoms among 10- to 12-year-old children: the effect of living environment in the PANACEA study », *J Asthma*, 2012, 49(4): 342-348.
- LANDS L. C., HEIGENHAUSER G. J., JONES N. L., « Analysis of factors limiting maximal exercise performance in cystic fibrosis », *Clin Sci (Lond)*, 1992, 83(4): 391-397.
- MCKENZIE D. C., MCLUCKIE S. L., STIRLING D. R., « The protective effects of contin-

## L'enfant et l'activité physique

uous and interval exercise in athletes with exercise-induced asthma », *Med Sci Sports Exerc*, 1994, 26(8): 951-956.

- MICKLEBOROUGH T. D., LINDLEY M. R., TURNER L. A., « Comparative effects of a high-intensity interval warm-up and salbutamol on the bronchoconstrictor response to exercise in asthmatic athletes », *Int J Sports Med*, 2007, 28(6): 456-462.
- MINISTÈRE DE L'EDUCATION NATIONALE d. I. R. e. d. I. E. S., . Accueil en collectivité des enfants et des adolescents atteints de troubles de la santé évoluant sur une longue période, MINISTERE DE L'EDUCATION NATIONALE, DE LA RECHERCHE ET DE L'ENSEIGNEMENT SUPERIEUR, 2003 - Bulletin officiel n°2003-135 du 8-9-2003.
- MORTON A. R., FITCH K. D., DAVIS T., « The effect of “warm-up” on exercise-induced asthma », *Ann Allergy*, 1979, 42(4): 257-260.
- NISAR M., SPENCE D. P., WEST D., HAYCOCK J., JONES Y., WALSHAW M. J., EARIS J. E., CALVERLEY P. M., PEARSON M. G., « A mask to modify inspired air temperature and humidity and its effect on exercise induced asthma », *Thorax*, 1992, 47(6): 446-450.
- NIXON P. A., « Role of exercise in the evaluation and management of pulmonary disease in children and youth », *Med Sci Sports Exerc*, 1996, 28(4): 414-420.
- NIXON P. A. « Cystic fibrosis ». In: ACSM, DURSTINE J. L., MOORE G., PAINTER P., ROBERTS S., ACSM's *exercise management for persons with chronic diseases and disabilities - 2nd Edition*, Champaign, Human Kinetics, 2003.
- NIXON P. A., ORENSTEIN D. M., KELSEY S. F., DOERSHUK C. F., « The prognostic value of exercise testing in patients with cystic fibrosis », *N Engl J Med*, 1992, 327(25): 1785-1788.
- ORENSTEIN D. M., HOVELL M. F., MULVIHILL M., KEATING K. K., HOFSTETTER C. R., KELSEY S., MORRIS K., NIXON P. A., « Strength vs aerobic training in children with cystic fibrosis: a randomized controlled trial », *Chest*, 2004, 126(4): 1204-1214.
- PARANJAPE S. M., BARNES L. A., CARSON K. A., VON BERG K., LOOSEN H., MOGAYZEL P.J., Jr., « Exercise improves lung function and habitual activity in children with cystic fibrosis », *J Cyst Fibros*, 2012, 11(1): 18-23.
- PILEWSKI J. M., FRIZZELL R. A., « Role of CFTR in airway disease », *Physiol Rev*, 1999, 79(1 Suppl): S215-255.
- PRASAD S. A., CERNY F. J., « Factors that influence adherence to exercise and their effectiveness: application to cystic fibrosis », *Pediatr Pulmonol*, 2002, 34(1): 66-72.
- RAND S., PRASAD S. A., « Exercise as part of a cystic fibrosis therapeutic routine », *Expert Rev Respir Med*, 2012, 6(3): 341-351; quiz 352.
- REGNIS J. A., ALISON J. A., HENKE K. G., DONNELLY P. M., BYE P. T., « Changes in end-expiratory lung volume during exercise in cystic fibrosis relate to severity of lung disease », *Am Rev Respir Dis*, 1991, 144(3 Pt 1): 507-512.
- REGNIS J. A., DONNELLY P. M., ROBINSON M., ALISON J. A., BYE P. T., « Ventilatory mechanics at rest and during exercise in patients with cystic fibrosis », *Am J Respir Crit*

*Care Med*, 1996, 154(5): 1418-1425.

- RUNDELL K. W., « Effect of air pollution on athlete health and performance », *Br J Sports Med*, 2012, 46(6): 407-412.
- SANDSUND M., THOMASSEN M., REINERTSEN R. E., STEINSHAMN S., « Exercise-induced asthma in adolescents: challenges for physical education teachers », *Chron Respir Dis*, 2011, 8(3): 171-179.
- SANTANA SOSA E., GROENEVELD I. F., GONZALEZ-SAIZ L., LOPEZ-MOJARES L. M., VILLA-ASENSI J. R., BARRIO GONZALEZ M. I., FLECK S. J., PEREZ M., LUCIA A., « Intrahospital weight and aerobic training in children with cystic fibrosis: a randomized controlled trial », *Med Sci Sports Exerc*, 2012, 44(1): 2-11.
- SCHNALL R. P., LANDAU L. I., « Protective effects of repeated short sprints in exercise-induced asthma », *Thorax*, 1980, 35(11): 828-832.
- SCHNEIDERMAN-WALKER J., POLLOCK S. L., COREY M., WILKES D. D., CANNY G. J., PEDDER L., REISMAN J. J., « A randomized controlled trial of a 3-year home exercise program in cystic fibrosis », *J Pediatr*, 2000, 136(3): 304-310.
- SELVADURAI H. C., BLIMKIE C. J., MEYERS N., MELLIS C. M., COOPER P. J., VAN ASPEREN P. P., « Randomized controlled study of in-hospital exercise training programs in children with cystic fibrosis », *Pediatr Pulmonol*, 2002, 33(3): 194-200.
- STICKFORD J. L., MICKLEBOROUGH T. D., FLY A. D., STAGER J. M., « Conjugated linoleic acid's lack of attenuation of hyperpnea-induced bronchoconstriction in asthmatic individuals in the short term », *Int J Sport Nutr Exerc Metab*, 2011, 21(1): 40-47.
- STICKLAND M. K., ROWE B. H., SPOONER C. H., VANDERMEER B., DRYDEN D. M., « Effect of warm-up exercise on exercise-induced bronchoconstriction », *Med Sci Sports Exerc*, 2012, 44(3): 383-391.
- THIN A. G., DODD J. D., GALLAGHER C. G., FITZGERALD M. X., MCLOUGHLIN P., « Effect of respiratory rate on airway deadspace ventilation during exercise in cystic fibrosis », *Respir Med*, 2004, 98(11): 1063-1070.
- TSAI S. Y., WARD T., LENTZ M. J., KIECKHEFER G. M., « Daytime physical activity levels in school-age children with and without asthma », *Nurs Res*, 2012, 61(4): 252-259.
- TURCHETTA A., SALERNO T., LUCIDI V., LIBERA F., CUTRERA R., BUSH A., « Usefulness of a program of hospital-supervised physical training in patients with cystic fibrosis », *Pediatr Pulmonol*, 2004, 38(2): 115-118.
- URQUHART D., SELL Z., DHOUIEB E., BELL G., OLIVER S., BLACK R., TALLIS M., « Effects of a supervised, outpatient exercise and physiotherapy programme in children with cystic fibrosis », *Pediatr Pulmonol*, 2012, 47(12): 1235-1241.
- UTELL M. J., LOONEY R. J., « Environmentally induced asthma », *Toxicol Lett*, 1995, 82-83: 47-53.
- VAHLKVIST S., INMAN M. D., PEDERSEN S., « Effect of asthma treatment on fitness,

## L'enfant et l'activité physique

- daily activity and body composition in children with asthma », *Allergy*, 2010, 65(11): 1464-1471.
- VAHLKVIST S., PEDERSEN S., « Fitness, daily activity and body composition in children with newly diagnosed, untreated asthma », *Allergy*, 2009, 64(11): 1649-1655.
  - VAN LEEUWEN J. C., DRIESSEN J. M., DE JONGH F. H., VAN AALDEREN W. M., THIO B. J., « Monitoring pulmonary function during exercise in children with asthma », *Arch Dis Child*, 2011, 96(7): 664-668.
  - VARRAY A., MERCIER J., RAMONATXO M., « L'exercice physique maximal chez l'enfant asthmatique : limitation aérobie et compensation anaérobie ? », *Sci Sports*, 1989, 4: 199-207.
  - VARRAY A., MERCIER J., SAVY-PACAUX A. M., PREFAUT C., « Cardiac role in exercise limitation in asthmatic subjects with special reference to disease severity », *Eur Respir J*, 1993, 6(7): 1011-1017.
  - VARRAY A., PREFAUT C., « [Physiopathological bases for retraining programs of asthma patients: adjustment to rehabilitation] », *Rev Mal Respir*, 1992, 9(4): 355-366.
  - VARRAY A. L., MERCIER J. G., PREFAUT C. G., « Individualized training reduces excessive exercise hyperventilation in asthmatics », *Int J Rehabil Res*, 1995, 18(4): 297-312.
  - VEMPATI R., BIJLANI R. L., DEEPAK K. K., « The efficacy of a comprehensive lifestyle modification programme based on yoga in the management of bronchial asthma: a randomized controlled trial », *BMC Pulm Med*, 2009, 9: 37.
  - VILLA F., CASTRO A. P., PASTORINO A. C., SANTAREM J. M., MARTINS M. A., JACOB C. M., CARVALHO C. R., « Aerobic capacity and skeletal muscle function in children with asthma », *Arch Dis Child*, 2011, 96(6): 554-559.
  - WANROOIJ V. H., WILLEBOORDSE M., DOMPELING E., VAN DE KANT K. D., « Exercise training in children with asthma: a systematic review », *Br J Sports Med*, 2013.
  - WEBB A. K., DODD M. E., MOORCROFT J., « Exercise and cystic fibrosis », *J R Soc Med*, 1995, 88 Suppl 25: 30-36.
  - WELSH L., KEMP J. G., ROBERTS R. G., « Effects of physical conditioning on children and adolescents with asthma », *Sports Med*, 2005, 35(2): 127-141.
  - WILKES D. L., SCHNEIDERMAN J. E., NGUYEN T., HEALE L., MOOLA F., RATJEN F., COATES A. L., WELLS G. D., « Exercise and physical activity in children with cystic fibrosis », *Paediatr Respir Rev*, 2009, 10(3): 105-109.
  - WILLIAMS B., HOSKINS G., POW J., NEVILLE R., MUKHOPADHYAY S., COYLE J., « Low exercise among children with asthma: a culture of over protection? A qualitative study of experiences and beliefs », *Br J Gen Pract*, 2010a, 60(577): e319-326.
  - WILLIAMS B., POWELL A., HOSKINS G., NEVILLE R., « Exploring and explaining low participation in physical activity among children and young people with asthma: a review », *BMC Fam Pract*, 2008, 9: 40.

- WILLIAMS C. A., BENDEN C., STEVENS D., RADTKE T., « Exercise training in children and adolescents with cystic fibrosis: theory into practice », *Int J Pediatr*, 2010b, 2010.
- WILLIAMS C. A., STEVENS D., « Physical activity and exercise training in young people with cystic fibrosis : current recommendations and evidence », *Journal of Sport and Health Science*, 2013, 2: 39-46.

## Chapitre 18

- ALBY N., « Pourquoi des psychologues dans les services de cancérologie », *Psychologie Médicale*, 1994, : 647-650.
- BELLIZZI K. M., ROWLAND J. H., ARORA N. K., HAMILTON A. S., MILLER M. F., AZIZ N. M., « Physical activity and quality of life in adult survivors of non-Hodgkin's lymphoma », *J Clin Oncol*, 2009, 27(6): 960-966.
- BELOT A., GROSCLAUDE P., BOSSARD N., JOUGLA E., BENHAMOU E., DELAFOSSE P., GUIZARD A. V., MOLINIE F., DANZON A., BARA S., BOUVIER A. M., TRETARRE B., BINDER-FOUCARD F., COLONNA M., DAUBISSE L., HEDELIN G., LAUNOY G., LE STANG N., MAYNADIE M., MONNEREAU A., TROUSSARD X., FAIVRE J., COLLIGNON A., JANORAY I., ARVEUX P., BUEMI A., RAVERDY N., SCHVARTZ C., BOVET M., CHERIE-CHALLINE L., ESTEVE J., REMONTET L., VELTEN M., « Cancer incidence and mortality in France over the period 1980-2005 », *Rev Epidemiol Sante Publique*, 2008, 56(3): 159-175.
- BERTORELLO N., MANICONE R., GALLETTO C., BARISONE E., FAGIOLI F., « Physical activity and late effects in childhood acute lymphoblastic leukemia long-term survivors », *Pediatr Hematol Oncol*, 2011, 28(5): 354-363.
- BJORK M., NORDSTROM B., HALLSTROM I., « Needs of young children with cancer during their initial hospitalization: an observational study », *J Pediatr Oncol Nurs*, 2006, 23(4): 210-219.
- BLAAUWBROEK R., BOUMA M. J., TUINIER W., GROENIER K. H., DE GREEF M. H., MEYBOOM-DE JONG B., KAMPS W. A., POSTMA A., « The effect of exercise counselling with feedback from a pedometer on fatigue in adult survivors of childhood cancer: a pilot study », *Support Care Cancer*, 2009, 17(8): 1041-1048.
- BOISVERT D., OUELLET P. A. « Désinstitutionnalisation et intégration sociale: l'expérience québécoise ». In: MARDAGA P., *L'intervention en déficience mentale*, Bruxelles, 1990.
- BRAITH R. W., « Role of exercise in rehabilitation of cancer survivors », *Pediatr Blood Cancer*, 2005, 44(7): 595-599.
- CANCER I. n. d., *La situation du cancer en France en 2012*, 2012.
- CHAMORRO-VINA C., GUILCHER G. M., KHAN F. M., MAZIL K., SCHULTE F., WURZ A., WILLIAMSON T., REIMER R. A., CULOS-REED S. N., « EXERCISE in pediatric autologous stem cell transplant patients: a randomized controlled trial protocol », *BMC Cancer*, 2012, 12: 401.

## L'enfant et l'activité physique

- CHAMORRO-VINA C., RUIZ J. R., SANTANA-SOSA E., GONZALEZ VICENT M., MADERO L., PEREZ M., FLECK S. J., PEREZ A., RAMIREZ M., LUCIA A., « Exercise during hematopoietic stem cell transplant hospitalization in children », *Med Sci Sports Exerc*, 2010, 42(6): 1045-1053.
- DAVIES H. A., « Late problems faced by childhood cancer survivors », *Br J Hosp Med*, 1993, 50(2-3): 137-140.
- DESANDES E., BERGER C., TRON I., DEMEOCQ F., BELLEC S., BLOUIN P., CASAGRAN-DA L., DE LUMLEY L., FREYCON F., GOUBIN A., LE GALL E., SOMMELET D., LACOUR B., CLAVEL J., « Childhood cancer survival in France, 1990-1999 », *Eur J Cancer*, 2008, 44(2): 205-215.
- DESANDES E., CLAVEL J., BERGER C., BERNARD J. L., BLOUIN P., DE LUMLEY L., DEMEOCQ F., FREYCON F., GEMBARA P., GOUBIN A., LE GALL E., PILION P., SOMMELET D., TRON I., LACOUR B., « Cancer incidence among children in France, 1990-1999 », *Pediatr Blood Cancer*, 2004, 43(7): 749-757.
- DUGGAN C., BECHARD L., DONOVAN K., VANGEL M., O'LEARY A., HOLMES C., LEHMANN L., GUINAN E., « Changes in resting energy expenditure among children undergoing allogeneic stem cell transplantation », *Am J Clin Nutr*, 2003, 78(1): 104-109.
- FELDER-PUIG R., DI GALLO A., WALDENMAIR M., NORDEN P., WINTER A., GADNER H., TOPF R., « Health-related quality of life of pediatric patients receiving allogeneic stem cell or bone marrow transplantation: results of a longitudinal, multi-center study », *Bone Marrow Transplant*, 2006, 38(2): 119-126.
- GASPAR N., BRUGIERES L., « [Cancer in teenagers] », *Rev Prat*, 2012, 62(10): 1353-1358.
- HEATH J. A., RAMZY J. M., DONATH S. M., « Physical activity in survivors of childhood acute lymphoblastic leukaemia », *J Paediatr Child Health*, 2010, 46(4): 149-153.
- HERBINET A., RICHARD C., PÉPIN C., VOUGA H., ANSERMET F., « Activités physiques chez l'enfant atteint d'un cancer : aspects psycho-corporels », *Annales médico-psychologiques*, 2004, 162: 105-109.
- HILL C., DOYON F., « [The frequency of cancer in France: all ages and under age 15, mortality in 2003 and trends since 1968] », *Bull Cancer*, 2007, 94(1): 7-13.
- HUANG T. T., NESS K. K., « Exercise interventions in children with cancer: a review », *Int J Pediatr*, 2011, 2011: 461512.
- HUMPEL N., IVERSON D. C., « Review and critique of the quality of exercise recommendations for cancer patients and survivors », *Support Care Cancer*, 2005, 13(7): 493-502.
- INSERM, *Activité physique. Contextes et effets sur la santé*, 2008.
- KAATSCH P., STELIAROVA-FOUCHER E., CROCETTI E., MAGNANI C., SPIX C., ZAMBON P., « Time trends of cancer incidence in European children (1978-1997): report from the Automated Childhood Cancer Information System project », *Eur J Cancer*, 2006, 42(13): 1961-1971.

- KEATS M. R., CULOS-REED S. N., « A community-based physical activity program for adolescents with cancer (project TREK): program feasibility and preliminary findings », *J Pediatr Hematol Oncol*, 2008, 30(4): 272-280.
- KEATS M. R., CULOS-REED S. N., COURNEYA K. S., « An examination of the beliefs, attitudes and counselling practices of paediatric oncologists toward physical activity: A provincial survey », *Paediatr Child Health*, 2007, 12(4): 289-293.
- LACOUR B., GUYOT-GOUBIN A., GUISSOU S., BELLEC S., DESANDES E., CLAVEL J., « Incidence of childhood cancer in France: National Children Cancer Registries, 2000-2004 », *Eur J Cancer Prev*, 2010, 19(3): 173-181.
- LEVRAT C., PICHARD-LÉANDRI E., « Cancers, douleurs, destructions multiples de l'être apport d'une approche psychomotrice », *Thérapie psychomotrice et recherches*, 1997, 110: 100-115.
- LI J., THOMPSON T. D., MILLER J. W., POLLACK L. A., STEWART S. L., « Cancer incidence among children and adolescents in the United States, 2001-2003 », *Pediatrics*, 2008, 121(6): e1470-1477.
- LIU R. D., CHINAPAW M. J., HUIJGENS P. C., VAN MECHELEN W., « Physical exercise interventions in haematological cancer patients, feasible to conduct but effectiveness to be established: a systematic literature review », *Cancer Treat Rev*, 2009, 35(2): 185-192.
- MARCHESE V. G., CHIARELLO L. A., LANGE B. J., « Effects of physical therapy intervention for children with acute lymphoblastic leukemia », *Pediatr Blood Cancer*, 2004, 42(2): 127-133.
- MAYER E. I., REUTER M., DOPFER R. E., RANKE M. B., « Energy expenditure, energy intake and prevalence of obesity after therapy for acute lymphoblastic leukemia during childhood », *Horm Res*, 2000, 53(4): 193-199.
- MICHEL G., VON DER WEID N. X., ZWAHLEN M., REDMOND S., STRIPPOLI M. P., KUEHNI C. E., SWISS PAEDIATRIC ONCOLOGY G., « Incidence of childhood cancer in Switzerland: the Swiss Childhood Cancer Registry », *Pediatr Blood Cancer*, 2008, 50(1): 46-51.
- NYSOM K., HOLM K., MICHAELSEN K. F., HERTZ H., MULLER J., MOLGAARD C., « Bone mass after treatment for acute lymphoblastic leukemia in childhood », *J Clin Oncol*, 1998a, 16(12): 3752-3760.
- NYSOM K., HOLM K., OLSEN J. H., HERTZ H., HESSE B., « Pulmonary function after treatment for acute lymphoblastic leukaemia in childhood », *Br J Cancer*, 1998b, 78(1): 21-27.
- OPPENHEIM D., *L'enfant et la cancer: la traversée d'un exil*,
- PAXTON R. J., MOTL R. W., AYLWARD A., NIGG C. R., « Physical activity and quality of life--the complementary influence of self-efficacy for physical activity and mental health difficulties », *Int J Behav Med*, 2010, 17(4): 255-263.
- PEDERSEN B. K., SALTIN B., « Evidence for prescribing exercise as therapy in chronic

## L'enfant et l'activité physique

- disease », *Scand J Med Sci Sports*, 2006, 16 Suppl 1: 3-63.
- PÉPIN C., *Le sujet en question. Analyse critique des doctrines sur les Activités Physiques Adaptées aux personnes handicapées*, Nancy I, 1996.
  - SAN JUAN A. F., CHAMORRO-VINA C., MORAL S., FERNANDEZ DEL VALLE M., MADERO L., RAMIREZ M., PEREZ M., LUCIA A., « Benefits of intrahospital exercise training after pediatric bone marrow transplantation », *Int J Sports Med*, 2008, 29(5): 439-446.
  - SAN JUAN A. F., FLECK S. J., CHAMORRO-VINA C., MATE-MUNOZ J. L., MORAL S., GARCIA-CASTRO J., RAMIREZ M., MADERO L., LUCIA A., « Early-phase adaptations to intrahospital training in strength and functional mobility of children with leukemia », *J Strength Cond Res*, 2007a, 21(1): 173-177.
  - SAN JUAN A. F., FLECK S. J., CHAMORRO-VINA C., MATE-MUNOZ J. L., MORAL S., PEREZ M., CARDONA C., DEL VALLE M. F., HERNANDEZ M., RAMIREZ M., MADERO L., LUCIA A., « Effects of an intrahospital exercise program intervention for children with leukemia », *Med Sci Sports Exerc*, 2007b, 39(1): 13-21.
  - SAN JUAN A. F., WOLIN K., LUCIA A. « Physical Activity and Pediatric Cancer Survivorship ». In: COURNEYA K. S., FRIEDENREICH C. M., *Physical Activity and Cancer*, Berlin Heidelberg, Springer, 2011, 319-347.
  - SIMARD C., CARON F., SKROTZKY K. « Activité physique adaptée », Québec, 1987.
  - SPEYER E., HERBINET A., VUILLEMIN A., BRIANCON S., CHASTAGNER P., « Effect of adapted physical activity sessions in the hospital on health-related quality of life for children with cancer: a cross-over randomized trial », *Pediatr Blood Cancer*, 2010, 55(6): 1160-1166.
  - SPEYER E., HERBINET A., VUILLEMIN A., BRIANÇON S., CHASTAGNER P., « Activité physique adaptée et qualité de vie liée à la santé lors d'un séjour hospitalier chez des enfants atteints d'un cancer : APOP, un essai randomisé en cross-over », *Sci Sports*, 2011, 26: 202-206.
  - STELIAROVA-FOUCHER E., STILLER C., LACOUR B., KAATSCH P., « International Classification of Childhood Cancer, third edition », *Cancer*, 2005, 103(7): 1457-1467.
  - STOLLEY M. R., RESTREPO J., SHARP L. K., « Diet and physical activity in childhood cancer survivors: a review of the literature », *Ann Behav Med*, 2010, 39(3): 232-249.
  - TAN S. Y., POH B. K., CHONG H. X., ISMAIL M. N., RAHMAN J., ZARINA A. L., JURAIDA A. R., TAHIR A., RUZITA A. T., ROSLEE R., SHANITA S. N., HAMIDAH A., SHAH M. I., NORIMAH A. K., « Physical activity of pediatric patients with acute leukemia undergoing induction or consolidation chemotherapy », *Leuk Res*, 2013, 37(1): 14-20.
  - TILLMANN V., DARLINGTON A. S., EISER C., BISHOP N. J., DAVIES H. A., « Male sex and low physical activity are associated with reduced spine bone mineral density in survivors of childhood acute lymphoblastic leukemia », *J Bone Miner Res*, 2002, 17(6): 1073-1080.

- TURNER-GOMES S. O., LANDS L. C., HALTON J., HANNING R. M., HEIGENHAUSER G. J., PAI M., BARR R., « Cardiorespiratory status after treatment for acute lymphoblastic leukemia », *Med Pediatr Oncol*, 1996, 26(3): 160-165.
- WARNER J. T., BELL W., WEBB D. K., GREGORY J. W., « Daily energy expenditure and physical activity in survivors of childhood malignancy », *Pediatr Res*, 1998, 43(5): 607-613.
- WHITE A. C., TERRIN N., MILLER K. B., RYAN H. F., « Impaired respiratory and skeletal muscle strength in patients prior to hematopoietic stem-cell transplantation », *Chest*, 2005, 128(1): 145-152.
- WINTER C., MULLER C., BRANDES M., BRINKMANN A., HOFFMANN C., HARDES J., GOSHEGER G., BOOS J., ROSENBAUM D., « Level of activity in children undergoing cancer treatment », *Pediatr Blood Cancer*, 2009, 53(3): 438-443.
- WINTER C. C., « The assessment of physical activity in children undergoing cancer treatment », *Leuk Res*, 2013, 37(3): 243-244.
- WOLIN K. Y., RUIZ J. R., TUCHMAN H., LUCIA A., « Exercise in adult and pediatric hematological cancer survivors: an intervention review », *Leukemia*, 2010, 24(6): 1113-1120.
- YEH C. H., MAN WAI J. P., LIN U. S., CHIANG Y. C., « A pilot study to examine the feasibility and effects of a home-based aerobic program on reducing fatigue in children with acute lymphoblastic leukemia », *Cancer Nurs*, 2011, 34(1): 3-12.

## Chapitre 19

- BRAUDEL F, *La longue durée*, 1958.
- BRUNET F, « Activités physiques et sportives des enfants handicapés », *Revue EPS*, 1981, 170.
- BRUNET F, BLANC C., MARGOT A. C., *Polyhandicap, Activités motrices et sensorielles des personnes polyhandicapées : Communiquer, Eveiller, Stimuler, Agir, Actio*, 2009.
- BUI-XUAN G., MIKULOVIC J. « Contre l'immobilisme, plaidoyer pour une mobilisation générale ». In: BRUNET F, BLANC C., MARGOT A. C., *Polyhandicap, Activités motrices et sensorielles des personnes polyhandicapées : Communiquer, Eveiller, Stimuler, Agir, Actio*, 2009.
- CLAUDEL P, *Parfums*, Stock, 2012.
- EDUCSCOL, <http://eduscol.education.fr>,
- GAGNAIRE P, « Du plaisir d'agir à l'envie d'apprendre », Colloque AEEPS, Lyon, 2009,
- GAREL J. P. « EPS et situation de handicap : projet personnalisé et activités communes ». In: BRUNET F, BLANC C., MARGOT A. C., *Polyhandicap, Activités motrices et sensorielles des personnes polyhandicapées : Communiquer, Eveiller, Stimuler, Agir, Actio*, 2009.

## L'enfant et l'activité physique

- GAUTHERON, VIGOUROUX, « *Évaluation en vie réelle des handicaps cognitifs et sensoriels* », 3ème Journée de l'ISTR, 2008.
- HANDICAP ET EPS ADAPTE, <http://pedagogie.ac-martinique.fr/epspremd/dochandicap.shtml>.
- L'ENFANT ET LE JEU, GROUPE ESPACE, [http://www.maternelle.ia94.ac-creteil.fr/html/mission\\_espace\\_enfant\\_jeu.html](http://www.maternelle.ia94.ac-creteil.fr/html/mission_espace_enfant_jeu.html);
- LAMBERT J. L., LAMBERT-BOITE F, *Education familiale et handicap mental*, Editions Universitaires, 1993.
- LEFEBVRE S., *Les enfants handicapés et l'école, Dossier actualité pour la classe*, APAJH, 1999.
- MERCURIALI G., « *Autisme et EPS. Des intentions aux actes* », *Revue de la lettre d'autisme*, 2007.
- MINVIELLE J. « *L'approche corporelle avec des enfants sourds-aveugles ou le toucher informationnel* ». In: BRUNET F., BLANC C., MARGOT A. C., *Polyhandicap, Activités motrices et sensorielles des personnes polyhandicapées : Communiquer, Eveiller, Stimuler, Agir, Actio*, 2009.
- OMS, *Classification internationale du fonctionnement, du handicap et de la santé*, Organisation Mondiale de la Santé, 2001.
- VINCENT B. « *Plaidoyer pour l'utilisation d'outils amplificateurs* ». In: BRUNET F., BUI-XUAN G., *Handicap mental, troubles psychiques et sports*, AFRAPS, 1999.
- VUILLEMIN A. « *L'art d'échanger sans parler, sans voir, sans entendre... Témoignage d'une aventure extraordinaire au pays de Séverin* ». In: BRUNET F., BLANC C., MARGOT A. C., *Polyhandicap, Activités motrices et sensorielles des personnes polyhandicapées : Communiquer, Eveiller, Stimuler, Agir, Actio*, 2009.
- WOOD P., *Classification Internationale des infirmités, incapacités et handicaps*, OMS, 1980.

## Chapitre 20

- AMERICAN PSYCHIATRIC ASSOCIATION, *DSM-IV-TR Manuel Diagnostique et Statistique des troubles Mentaux*, Masson, 2003.
- BADDELEY A. D., *Working memory*, Oxford University Press, 1986.
- BARON-COHEN S., *La cécité mentale : Un essai sur l'autisme et la théorie de l'esprit*, PUG, 1998.
- BONDY A. S., FROST L. A., *Le Système de Communication par Echange d'Images : manuel de formation*, Pyramid Educational Product, 2002.
- BOUSSON J., CHAMBRES P., JALENQUE I., « *La routinisation : un symptôme transnographique ?* », *Annales médico-psychologiques*, 2009, 167(3): 172-178.
- DECI E. L., RYAN R. M., *Intrinsic motivation and self-determination in human behavior*, Plenum Press, 1985.

- FRITH U., *L'énigme de l'autisme*, Odile Jacob, 2010.
- GRAY C. A., *Livre de scénarios sociaux*, Jenison Public Schools, 1994a.
- GRAY C. A., *Nouveau livre de scénarios sociaux*, Jenison Public Schools, 1994b.
- HANDBURY M., *Educating pupils with autistic spectrum disorders: A practical guide*, Paul Chapman Publishing, 2005.
- HOWLIN P., BARON-COHEN S., HADWIN J., *Apprendre aux enfants autistes à comprendre la pensée des autres : un guide pratique*, Be Boeck, 2010.
- JASPARS J., HEWSTONE M. « La théorie de l'attribution ». In: MOSCOVICI S., *Psychologie sociale*, Paris, PUF, 1984, 309-329.
- LEAF R., MCEACHIN J., *Autisme et ABA: une pédagogie du progrès*, Pearson Education, 2006.
- MESIBOV G., *Autisme. Le défi du programme Teacch*, Pro Aid Autisme, 1995.
- ORGANISATION MONDIALE DE LA SANTÉ, CIM 10 – *Classification Internationale des troubles Mentaux et des troubles du comportement : descriptions cliniques et directives pour le diagnostic*, Masson, 1993.
- RIZZOLATTI G., SINIGAGLIA C., *Les neurones miroirs*, Odile Jacob, 2008.
- ROGÉ B., *Autisme : comprendre et agir*, Dunod, 2003.
- SCHOPLER E., REICHLER R. J., LANSING M., *Stratégies éducatives de l'autisme*, Masson, 2002.
- TARDIF C., GEPNER B., *L'autisme*, Nathan, 2010.
- YOUTH SPORT TRUST, *HIGH QUALITY PHYSICAL EDUCATION FOR PUPILS WITH AUTISM*, [http://www.autismargyll.org.uk/autismargyll/Resources\\_files/AUTISM\\_PE\\_BOOKLET\\_v5.pdf](http://www.autismargyll.org.uk/autismargyll/Resources_files/AUTISM_PE_BOOKLET_v5.pdf), 2008.
- Chap. 20, section 4 : IME Ker an Héol de Tréguier dans les Côtes-d'Armor : <http://victoires.unapei.org/les-victoires-de-l-accessibilite-4/liste-des-victoires/article/un-projet-d-aide-a-la>)
- Chap. 20, section 8 : pour une rapide histoire illustrée de cette découverte et de son incidence notamment sur l'empathie, voir : <http://www.youtube.com/watch?v=iZ1P7NjY4hA>