

The Sport, Physical activity, and Health research group

Publications in peer-reviewed journals 2013-2023

Researchers in full-time position

2023

1. Weitz MS, Morseth B, Hopstock LA, Horsch LA: **Influence of Accelerometer Calibration on the Estimation of Objectively Measured Physical Activity: The Tromsø Study.** *Journal for the Measurement of Physical Behaviour (JMPB)* 2023.
2. Teterina A, Niratisairak S, Morseth B, Bolstad N: **General and local predictors of mandibular cortical bone morphology in adult females and males: the seventh survey of the Tromsø Study.** *Clin Oral Invest* 2023, **27**(11):6577-6587.
3. Teterina A, Niratisairak S, Morseth B, Bolstad N: **Diagnostic efficacy of radiomorphometric indices for predicting osteoporosis in a Norwegian population in the Tromsø Study: Tromsø7.** *Oral Surg Oral Med Oral Pathol Oral Radiol* 2023, **135**(3):444-455.
4. Staff HC, Solli GS, Osborne JO, Sandbakk O: **Long-Term Development of Training Characteristics and Performance-Determining Factors in Elite/International and World-Class Endurance Athletes: A Scoping Review.** *Sports Med* 2023, **53**(8):1595-1607.
5. Sagelv EH, Hopstock LA, Morseth B, Hansen BH, Steene-Johannessen J, Johansson J, Nordstrom A, Saint-Maurice PF, Lovsletten O, Wilsgaard T *et al*: **Device-measured physical activity, sedentary time, and risk of all-cause mortality: an individual participant data analysis of four prospective cohort studies.** *Br J Sports Med* 2023, **57**(22):1457-1463.
6. Sagelv EH, Dalene KE, Eggen AE, Ekelund U, Fimland MS, Heitmann KA, Holtermann A, Johansen KR, Lochen ML, Morseth B, Wilsgaard T: **Occupational physical activity and risk of mortality in women and men: the Tromsø Study 1986-2021.** *Br J Sports Med* 2023.
7. Roso-Moliner A, Mainer-Pardos E, Carton-Llorente A, Nobari H, Pettersen SA, Lozano D: **Effects of a neuromuscular training program on physical performance and asymmetries in female soccer.** *Front Physiol* 2023, **14**:1171636.
8. Riegler MA, Thambawita V, Nguyen T, Hicks SA, Pettersen SA, Johansen D, Jain R, Halvorsen P: **ScopeSense: An 8.5-month sport, nutrition, and lifestyle lifelogging dataset.** In.; 2023.
9. Pedersen A, Randers MB, Luteberget LS, Moller M: **Validity of Session Rating of Perceived Exertion for Measuring Training Load in Youth Team Handball Players.** *J Strength Cond Res* 2023, **37**(1):174-180.
10. Otsuka K, Cornelissen G, Weydahl A, Gubin D, Beaty LA, Murase M: **Rules of Heliogeomagnetics Diversely Coordinating Biological Rhythms and Promoting Human Health.** *Applied Sciences* 2023, **13**(2).
11. Osborne JO, Tallent J, Girard O, Marshall PW, Kidgell D, Buhmann R: **Neuromuscular electrical stimulation during maximal voluntary contraction: a Delphi survey with expert consensus.** *European journal of applied physiology* 2023, **123**(10):2203-2212.
12. Osborne JO, Solli GS, Engseth TP, Welde B, Morseth B, Noordhof DA, Sandbakk O, Andersson EP: **Annual Volume and Distribution of Physical Training in Norwegian Female Cross-Country Skiers and Biathletes: A Comparison Between Sports, Competition Levels, and Age Categories-The FENDURA Project.** *Int J Sports Physiol Perform* 2023:1-9.
13. Osborne JO, Minett GM, Stewart IB, Trost S, Drovandi C, Costello JT, Pavey TG, Borg DN: **Evidence that heat acclimation training may alter sleep and incidental activity.** *Eur J Sport Sci* 2023, **23**(8):1731-1740.
14. Myrstad M, Johansen KR, Sorensen E, Ranhoff AH: **Rationale and design of the Birkebeiner Ageing Study - a prospective cohort study of older endurance athletes.** *BMC Geriatr* 2023, **23**(1):365.
15. Moen F, Pettersen SA, Gjertsas K, Vatn M, Ravenhorst M, Kvalsvoll A, Liland KH, Mosleth EF: **The effect of bio-electro-magnetic-energy-regulation therapy on sleep duration and sleep quality among elite players in Norwegian women's football.** *Front Psychol* 2023, **14**:1230281.
16. Johansson J, Emaus N, Geelhoed B, Sagelv E, Morseth B: **Vertebral Fractures Assessed by Dual-Energy X-Ray Absorptiometry and All-Cause Mortality: The Tromsø Study, 2007-2020.** *Am J Epidemiol* 2023, **192**(1):62-69.

17. Johansen KR, Sørensen E, Ranhoff AH, Myrstad M: **Exercise and prevalence of cardiovascular disease in older female endurance athletes during 10 years follow-up.** In., vol. 30; 2023: 1.
18. Johansen KR, Ranhoff AH, Sørensen E, Nes BM, Bucher-Sandbakk S, Wilsgaard T, Lochen ML, Thelle DS, Morseth B, Myrstad M, Nexaf: **Ten-year mortality among older male recreational endurance athletes in the Birkebeiner Aging Study in comparison with older men from the Tromso Study.** *Scand J Med Sci Sports* 2023, **33**(8):1541-1551.
19. Irgens EL, Berglen G, Christoffersen T, Henninen AP, Hermansen R, Karlsen MRE, Kokkvoll AS, Liabo K, Mollersen S, Rugland G *et al*: **Our health, our research. Identifying public health research priorities among children and youth in a multiethnic population: protocol for a community-based participatory health research priority survey.** *BMJ Open* 2023, **13**(7):e072567.
20. Holvik K, Dahl C, Sjøgaard A-J, Solbakken SM, Tell GS, Hoff M, Kjeldgaard HK, Apalset EM, Morseth B, Grimnes G *et al*: **Educational gradient in hip fracture incidence in Norway. The Norwegian Epidemiologic Osteoporosis Studies (NOREPOS).** In., vol. 31: Norsk forening for epidemiologi; 2023: 22-22.
21. Fjeld MK, Arnes AP, Engdahl B, Morseth B, Hopstock LA, Horsch A, Stubhaug A, Strand BH, Nielsen CS, Steingrimsdottir OA: **Consistent pattern between physical activity measures and chronic pain levels: the Tromso Study 2015 to 2016.** *Pain* 2023, **164**(4):838-847.
22. Ekberg S, Morseth B, Larsen KB, Wikstrom-Frisen L: **Does the Menstrual Cycle Influence Aerobic Capacity in Endurance-Trained Women?** *Res Q Exerc Sport* 2023:1-8.
23. De Martin Topranin V, Engseth TP, Hrozanova M, Taylor M, Sandbakk O, Noordhof DA: **The Influence of Menstrual-Cycle Phase on Measures of Recovery Status in Endurance Athletes: The Female Endurance Athlete Project.** *Int J Sports Physiol Perform* 2023, **18**(11):1296-1303.
24. Baptista I, Winther AK, Pedersen S, Johansen D, Pettersen SA: **The influence of age on the match-to-match variability of physical performance in women's elite football.** *Front Physiol* 2023, **14**:1193501.
25. Arnes AP, Nielsen CS, Stubhaug A, Fjeld MK, Johansen A, Morseth B, Strand BH, Wilsgaard T, Steingrimsdottir OA: **Longitudinal relationships between habitual physical activity and pain tolerance in the general population.** *PLoS One* 2023, **18**(5):e0285041.
26. Andersson EP, Logdal N, Byrne D, Jones TW: **Physiological responses and performance factors for double-poling and diagonal-stride treadmill roller-skiing time-trial exercise.** *European journal of applied physiology* 2023, **123**(11):2495-2509.

2022

27. Zanaboni P, Manskow US, Sagelv EH, Morseth B, Edvardsen AE, Aamot IL, Nes BM, Hastings B, Gagnon MP, Antypas K: **Digital interventions to promote physical activity among inactive adults: A study protocol for a hybrid type I effectiveness-implementation randomized controlled trial.** *Front Public Health* 2022, **10**:925484.
28. Winther AK, Baptista I, Pedersen S, Randers MB, Johansen D, Krustup P, Pettersen SA: **Position specific physical performance and running intensity fluctuations in elite women's football.** *Scand J Med Sci Sports* 2022, **32 Suppl 1**:105-114.
29. Weitz M, Syed S, Hopstock LA, Morseth B, Prasad DK, Horsch A: **Discrimination of sleep and wake periods from a hip-worn raw acceleration sensor using recurrent neural networks.** In.: Cold Spring Harbor Laboratory; 2022.
30. von Hanno T, Hareide LL, Smabrekke L, Morseth B, Sneve M, Erke MG, Mathiesen EB, Bertelsen G: **Macular Layer Thickness and Effect of BMI, Body Fat, and Traditional Cardiovascular Risk Factors: The Tromso Study.** *Invest Ophthalmol Vis Sci* 2022, **63**(9):16.
31. Staunton CA, Andersson EP, Skovereng K, Bjorklund G: **Heart Rate Does Not Accurately Predict Metabolic Intensity During Variable-Intensity Roller Skiing or Cycling.** *Int J Sports Physiol Perform* 2022, **17**(12):1664-1671.
32. Pedersen S, Welde B, Sagelv EH, Heitmann KA, M BR, Johansen D, Pettersen SA: **Associations between maximal strength, sprint, and jump height and match physical performance in high-level female football players.** *Scand J Med Sci Sports* 2022, **32 Suppl 1**:54-61.
33. Panduro J, Ermidis G, Roddik L, Vigh-Larsen JF, Madsen EE, Larsen MN, Pettersen SA, Krustup P, Randers MB: **Physical performance and loading for six playing positions in elite female football: full-game, end-game, and peak periods.** *Scand J Med Sci Sports* 2022, **32 Suppl 1**:115-126.

34. Mohr M, Brito J, de Sousa M, Pettersen SA: **Executive summary: Elite women's football-Performance, recovery, diet, and health.** *Scand J Med Sci Sports* 2022, **32 Suppl 1**(Suppl 1):3-6.
35. Mikkila S, Johansson J, Nordstrom A, Nordstrom P, Emaus N, Handegard BH, Morseth B, Welde B: **A 15-year follow-up study of hip bone mineral density and associations with leisure time physical activity. The Tromso Study 2001-2016.** *PLoS One* 2022, **17**(1):e0262228.
36. Medbo JJ, Welde B: **Effect of Computational Method on Accumulated O(2) Deficit.** *Front Sports Act Living* 2022, **4**:772049.
37. Løgdal N, Laaksonen MS, Andersson EP: **Individual fluctuations in blood lactate concentration during an ice hockey game; differences between player positions.** *International Journal of Exercise Science* 2022, **15**(6):985-993.
38. Linkas J, Ahmed LA, Csifcsak G, Emaus N, Furberg AS, Pettersen G, Rognmo K, Christoffersen T: **Two-year changes in sleep duration are associated with changes in psychological distress in adolescent girls and boys: the fit futures study.** *Health Psychol Behav Med* 2022, **10**(1):1159-1175.
39. Linkas J, Ahmed LA, Csifcsak G, Emaus N, Furberg AS, Grimnes G, Pettersen G, Rognmo K, Christoffersen T: **C-Reactive Protein and TGF-alpha Predict Psychological Distress at Two Years of Follow-Up in Healthy Adolescent Boys: The Fit Futures Study.** *Front Psychol* 2022, **13**:823420.
40. Linkas J, Ahmed LA, Csifcsak G, Emaus N, Furberg AS, Grimnes G, Pettersen G, Rognmo K, Christoffersen T: **Are pro-inflammatory markers associated with psychological distress in a cross-sectional study of healthy adolescents 15-17 years of age? The Fit Futures study.** *BMC Psychol* 2022, **10**(1):65.
41. Johansen KR, Ranhoff AH, Sorensen E, Nes BM, Heitmann KA, Apelland T, Bucher Sandbakk S, Wilsgaard T, Lochen ML, Thelle DS *et al*: **Risk of atrial fibrillation and stroke among older men exposed to prolonged endurance sport practice: a 10-year follow-up. The Birkebeiner Ageing Study and the Tromso Study.** *Open Heart* 2022, **9**(2):e002154.
42. Hopstock LA, Morseth B, Cook S, Eggen AE, Grimsgaard S, Lundblad MW, Lochen ML, Mathiesen E, Nilsen A, Njolstad I: **Treatment target achievement after myocardial infarction and ischaemic stroke: cardiovascular risk factors, medication use, and lifestyle: the Tromso Study 2015-16.** *Eur J Prev Cardiol* 2022, **29**(2):362-370.
43. Heitmann KA, Welde B, Lochen ML, Styliadis M, Schirmer H, Morseth B: **Longitudinal Associations Between Cumulative Physical Activity and Change in Structure and Function of the Left Side of the Heart: The Tromso Study 2007-2016.** *Front Cardiovasc Med* 2022, **9**:882077.
44. Heitmann KA, Løchen M-L, Styliadis M, Hopstock LA, Schirmer H, Morseth B: **Associations between physical activity, left atrial size and incident atrial fibrillation: the Tromsø Study 1994–2016.** *Open Heart* 2022, **9**(1):e001823.
45. Hammer TM, Pedersen S, Pettersen SA, Rognmo K, Sagelv EH: **Affective Valence and Enjoyment in High- and Moderate-High Intensity Interval Exercise. The Tromso Exercise Enjoyment Study.** *Front Psychol* 2022, **13**:825738.
46. Engseth TP, Andersson EP, Solli GS, Morseth B, Thomassen TO, Noordhof DA, Sandbakk O, Welde B: **Prevalence and Self-Perceived Experiences With the Use of Hormonal Contraceptives Among Competitive Female Cross-Country Skiers and Biathletes in Norway: The FENDURA Project.** *Front Sports Act Living* 2022, **4**:873222.
47. Dobler F, Bachl P, Stoggl T, Andersson EP: **Physiological Responses and Performance During a 3-Minute Cycle Time Trial: Standard Paced Versus All-Out Paced.** *Int J Sports Physiol Perform* 2022, **17**(11):1583-1589.
48. Borg DN, Osborne JO, Tweedy SM, Liljedahl JB, Nooijen CFJ: **Bicycling and Tricycling Road Race Performance in International Para-Cycling Events Between 2011 and 2019.** *Am J Phys Med Rehabil* 2022, **101**(4):384-388.
49. Beldo SK, Aars NA, Christoffersen T, Furberg AS, Halvorsen PA, Hansen BH, Horsch A, Sagelv EH, Syed S, Morseth B: **Criterion validity of the Saltin-Grimby Physical Activity Level Scale in adolescents. The Fit Futures Study.** *PLoS One* 2022, **17**(9):e0273480.
50. Baptista I, Winther AK, Johansen D, Randers MB, Pedersen S, Pettersen SA: **The variability of physical match demands in elite women's football.** *Sci Med Footb* 2022, **6**(5):559-565.
51. Andersson EP, Bachl P, Schmuttermair A, Staunton CA, Stoggl TL: **Anaerobic work capacity in cycling: the effect of computational method.** *European journal of applied physiology* 2022, **122**(12):2637-2650.

2021

52. Tutt AS, Persson H, Andersson EP, Ainegren M, Stenfors N, Hanstock HG: **A heat and moisture-exchanging mask impairs self-paced maximal running performance in a sub-zero environment.** *European journal of applied physiology* 2021, **121**(7):1979-1992.
53. Syed S, Morseth B, Hopstock LA, Horsch A: **A novel algorithm to detect non-wear time from raw accelerometer data using deep convolutional neural networks.** *Sci Rep* 2021, **11**(1):8832.
54. Skauge M, Rafoss K: **Gendered Exercise as an Expression of Gendered Meaning? Exercise Contexts and Motives Among Norwegian Youths 13–18 Years Old, 2010–2018 | A Summary.** In.: Idrottsvetenskap, Lärarutbildningen, Malmö högskol; 2021.
55. Sagelv EH, Ekelund U, Hopstock LA, Fimland MS, Lovsletten O, Wilsgaard T, Morseth B: **The bidirectional associations between leisure time physical activity change and body mass index gain. The Tromso Study 1974-2016.** *Int J Obes (Lond)* 2021, **45**(8):1830-1843.
56. Pedersen S, Johansen D, Casolo A, Randers MB, Sagelv EH, Welde B, Winther AK, Pettersen SA: **Maximal Strength, Sprint, and Jump Performance in High-Level Female Football Players Are Maintained With a Customized Training Program During the COVID-19 Lockdown.** *Front Physiol* 2021, **12**:623885.
57. Osborne JO, Stewart IB, Borg DN, Beagley KW, Buhmann RL, Minett GM: **Short-term heat acclimation preserves knee extensor torque but does not improve 20 km self-paced cycling performance in the heat.** *European journal of applied physiology* 2021, **121**(10):2761-2772.
58. Morseth B, Geelhoed B, Linneberg A, Johansson L, Kuulasmaa K, Salomaa V, Iacoviello L, Costanzo S, Soderberg S, Niiranen TJ et al: **Age-specific atrial fibrillation incidence, attributable risk factors and risk of stroke and mortality: results from the MORGAM Consortium.** *Open Heart* 2021, **8**(2).
59. Lidar J, Andersson EP, Sundstrom D: **Validity and Reliability of Hydraulic-Analogy Bioenergetic Models in Sprint Roller Skiing.** *Front Physiol* 2021, **12**:726414.
60. Johansson J, Morseth B, Scott D, Strand BH, Hopstock LA, Grimsgaard S: **Moderate-to-vigorous physical activity modifies the relationship between sedentary time and sarcopenia: the Tromso Study 2015-2016.** *J Cachexia Sarcopenia Muscle* 2021, **12**(4):955-963.
61. Hoog S, Andersson EP: **Sex and Age-Group Differences in Strength, Jump, Speed, Flexibility, and Endurance Performances of Swedish Elite Gymnasts Competing in TeamGym.** *Front Sports Act Living* 2021, **3**:653503.
62. Heitmann KA, Locher ML, Hopstock LA, Stylidis M, Welde B, Schirmer H, Morseth B: **Cross-sectional associations between accelerometry-measured physical activity, left atrial size, and indices of left ventricular diastolic dysfunction: The Tromso Study.** *Prev Med Rep* 2021, **21**:101290.
63. Hauger AV, Holvik K, Bergland A, Stahle A, Emaus N, Morseth B, Strand BH: **Physical capability, physical activity, and their association with femoral bone mineral density in adults aged 40 years and older: The Tromso study 2015-2016.** *Osteoporos Int* 2021, **32**(10):2083-2094.
64. Gejl KD, Hvid LG, Andersson EP, Jensen R, Holmberg HC, Ortenblad N: **Contractile Properties of MHC I and II Fibers From Highly Trained Arm and Leg Muscles of Cross-Country Skiers.** *Front Physiol* 2021, **12**:682943.
65. Deraas TS, Hopstock L, Henriksen A, Morseth B, Sand AS, Njolstad I, Pedersen S, Sagelv E, Johansson J, Grimsgaard S: **Complex lifestyle intervention among inactive older adults with elevated cardiovascular disease risk and obesity: a mixed-method, single-arm feasibility study for RESTART-a randomized controlled trial.** *Pilot Feasibility Stud* 2021, **7**(1):190.
66. Danielsen KH, Varnes TK, Sagelv EH, Heitmann KA, Mathisen GE: **Seasonal variations in physical activity among Norwegian elementary school children in Arctic regions.** *International journal of circumpolar health* 2021, **80**(1):2004688.
67. Arnes AP, Nielsen CS, Stubhaug A, Fjeld MK, Hopstock LA, Horsch A, Johansen A, Morseth B, Wilsgaard T, Steingrimsdottir OA: **Physical activity and cold pain tolerance in the general population.** *Eur J Pain* 2021, **25**(3):637-650.
68. Andersson EP, Noordhof D, De Koning J, Stöggl TL, Björklund G: **Editorial: Anaerobic Energy/Work Supply in Endurance Activities—The Importance and Effect of Computational Method.** In.; 2021.
69. Andersson EP, Hamberg I, Do Nascimento Salvador PC, McGawley K: **Physiological responses and cycle characteristics during double-poling versus diagonal-stride roller-skiing in junior cross-country skiers.** *European journal of applied physiology* 2021, **121**(8):2229-2241.

70. Andersson EP, Bjorklund G, McGawley K: **Anaerobic Capacity in Running: The Effect of Computational Method.** *Front Physiol* 2021, **12**:708172.
71. Andersen TL, Moldenæs T, Ronglan LT: **When different logics meet: the crisis communication of a national head coach in elite football.** *Soccer & Society* 2021, **23**(2):159-172.

2020

72. Welde B, Morseth B, Handegard BH, Lagestad P: **Effect of Sex, Body Mass Index and Physical Activity Level on Peak Oxygen Uptake Among 14-19 Years Old Adolescents.** *Front Sports Act Living* 2020, **2**(78):78.
73. Syed S, Morseth B, Hopstock LA, Horsch A: **Evaluating the performance of raw and epoch non-wear algorithms using multiple accelerometers and electrocardiogram recordings.** *Sci Rep* 2020, **10**(1):5866.
74. Stoggl TL, Hertlein M, Brunauer R, Welde B, Andersson EP, Swaren M: **Pacing, Exercise Intensity, and Technique by Performance Level in Long-Distance Cross-Country Skiing.** *Front Physiol* 2020, **11**:17.
75. Sharashova E, Wilsgaard T, Ball J, Morseth B, Gerds E, Hopstock LA, Mathiesen EB, Schirmer H, Lochen ML: **Long-term blood pressure trajectories and incident atrial fibrillation in women and men: the Tromso Study.** *Eur Heart J* 2020, **41**(16):1554-1562.
76. Sagelv EH, Pedersen S, Nilsen LPR, Casolo A, Welde B, Randers MB, Pettersen SA: **Flywheel squats versus free weight high load squats for improving high velocity movements in football. A randomized controlled trial.** *BMC Sports Sci Med Rehabil* 2020, **12**:61.
77. Sagelv EH, Hopstock LA, Johansson J, Hansen BH, Brage S, Horsch A, Ekelund U, Morseth B: **Criterion validity of two physical activity and one sedentary time questionnaire against accelerometry in a large cohort of adults and older adults.** *BMJ Open Sport Exerc Med* 2020, **6**(1):e000661.
78. Sagelv EH, Ekelund U, Hopstock LA, Aars NA, Fimland MS, Jacobsen BK, Lovsletten O, Wilsgaard T, Morseth B: **Do declines in occupational physical activity contribute to population gains in body mass index? Tromso Study 1974-2016.** *Occupational and environmental medicine* 2020.
79. Rosenbaum S, Morell R, Abdel-Baki A, Ahmadpanah M, Anilkumar TV, Baie L, Bauman A, Bender S, Boyan Han J, Brand S *et al*: **Assessing physical activity in people with mental illness: 23-country reliability and validity of the simple physical activity questionnaire (SIMPAQ).** *BMC Psychiatry* 2020, **20**(1):108.
80. Pettersen SD, Aslaksen PM, Pettersen SA: **Pain Processing in Elite and High-Level Athletes Compared to Non-athletes.** *Front Psychol* 2020, **11**:1908.
81. Opdal IM, Morseth B, Handegard BH, Lillevoll KR, Nilsen W, Nielsen C, Furberg AS, Rosenbaum S, Rognmo K: **Is change in mental distress among adolescents predicted by sedentary behaviour or screen time? Results from the longitudinal population study The Tromso Study: Fit Futures.** *BMJ Open* 2020, **10**(2):e035549.
82. Morseth B, Hopstock LA: **Time trends in physical activity in the Tromso study: An update.** *PLoS One* 2020, **15**(4):e0231581.
83. Johansson J, Strand BH, Morseth B, Hopstock LA, Grimsgaard S: **Differences in sarcopenia prevalence between upper-body and lower-body based EWGSOP2 muscle strength criteria: the Tromso study 2015-2016.** *BMC Geriatr* 2020, **20**(1):461.
84. Hammer T: **Relative age effect in international ski jumping: analysis of FIS World Cup and FIS Junior World Ski Championships.** *Journal of Physical Education and Sport* 2020, **2020**(03):1455-1460.
85. GjOvaag T, Berge H, Olsrud M, Welde B: **Acute Post-Exercise Blood Pressure Responses in Middle-Aged Persons with Elevated Blood Pressure/Stage 1 Hypertension following Moderate and High-Intensity Isoenergetic Endurance Exercise.** *Int J Exerc Sci* 2020, **13**(3):1532-1548.
86. Danielsen KH, Vårnes TK, Mathisen G, Heitmann KA, Morseth B: **Physical Activity, Physical Fitness And Body Mass Index Among Elementary School Children In The Arctic Area.** In., vol. 52: American College of Sports Medicine; 2020: 62-62.
87. Beldo SK, Morseth B, Christoffersen T, Halvorsen PA, Hansen BH, Furberg AS, Ekelund U, Horsch A: **Prevalence of accelerometer-measured physical activity in adolescents in Fit Futures - part of the Tromso Study.** *BMC public health* 2020, **20**(1):1127.
88. Ardigo LP, Stoggl TL, Thomassen TO, Winther AK, Sagelv EH, Pedersen S, Hammer TM, Heitmann KA, Olsen OE, Welde B: **Ski Skating Race Technique-Effect of Long Distance Cross-Country Ski Racing on Choice of Skating Technique in Moderate Uphill Terrain.** *Front Sports Act Living* 2020, **2**:89.

89. Aars NA, Beldo S, Jacobsen BK, Horsch A, Morseth B, Emaus N, Furberg AS, Grimsgaard S: **Association between objectively measured physical activity and longitudinal changes in body composition in adolescents: the Tromso study fit futures cohort.** *BMJ Open* 2020, **10**(10):e036991.

2019

90. Torvik PO, Heimburg EDV, Sende T, Welde B: **The effect of pole length on physiological and perceptual responses during G3 roller ski skating on uphill terrain.** *PLoS One* 2019, **14**(2):e0211550.
91. Sagelv EH, Selnaes I, Pedersen S, Pettersen SA, Randers MB, Welde B: **Effects of Linear Versus Changes of Direction Repeated Sprints on Intermittent High Intensity Running Performance in High-level Junior Football Players over an Entire Season: A Randomized Trial.** *Sports (Basel)* 2019, **7**(8):14.
92. Sagelv EH, Hammer T, Hamsund T, Rognmo K, Pettersen SA, Pedersen S: **High Intensity Long Interval Sets Provides Similar Enjoyment as Continuous Moderate Intensity Exercise. The Tromso Exercise Enjoyment Study.** *Front Psychol* 2019, **10**(JULY):1788.
93. Sagelv EH, Ekelund U, Pedersen S, Brage S, Hansen BH, Johansson J, Grimsgaard S, Nordstrom A, Horsch A, Hopstock LA, Morseth B: **Physical activity levels in adults and elderly from triaxial and uniaxial accelerometry. The Tromso Study.** *PLoS One* 2019, **14**(12):e0225670.
94. Pettersen SA, Brenn T: **Activity Profiles by Position in Youth Elite Soccer Players in Official Matches.** *Sports Med Int Open* 2019, **3**(1):E19-E24.
95. Pedersen S, Heitmann KA, Sagelv EH, Johansen D, Pettersen SA: **Improved maximal strength is not associated with improvements in sprint time or jump height in high-level female football players: a cluster-randomized controlled trial.** *BMC Sports Sci Med Rehabil* 2019, **11**(20):20.
96. Opdal IM, Morseth B, Handegard BH, Lillevoll K, Ask H, Nielsen CS, Horsch A, Furberg AS, Rosenbaum S, Rognmo K: **Change in physical activity is not associated with change in mental distress among adolescents: the Tromso study: Fit Futures.** *BMC public health* 2019, **19**(1):916.
97. Mikkila S, Calogiuri G, Emaus N, Morseth B: **A cross-sectional and 6-year follow-up study of associations between leisure time physical activity and vertebral fracture in adults.** *BMC musculoskeletal disorders* 2019, **20**(1):435.
98. Jonsson M, Welde B, Stoggl TL: **Biomechanical differences in double poling between sexes and level of performance during a classical cross-country skiing competition.** *J Sports Sci* 2019, **37**(14):1582-1590.
99. Hoaas H, Zanaboni P, Hjalmarsen A, Morseth B, Dinesen B, Burge AT, Cox NS, Holland AE: **Seasonal variations in objectively assessed physical activity among people with COPD in two Nordic countries and Australia: a cross-sectional study.** *International journal of chronic obstructive pulmonary disease* 2019, **14**:1219-1228.
100. Hermansen R, Jacobsen BK, Lochen ML, Morseth B: **Leisure time and occupational physical activity, resting heart rate and mortality in the Arctic region of Norway: The Finnmark Study.** *Eur J Prev Cardiol* 2019, **26**(15):1636-1644.
101. Heitmann KA, Dalen H, Holmen Gundersen G, Ingvaldsen RP, Welde B: **Intra-arterial blood pressure traits during and after heavy resistance exercise in healthy males.** *Translational Sports Medicine* 2019, **2**(6):325-333.
102. Casolo A, Sagelv EH, Bianco M, Casolo F, Galvani C: **Effects of a structured recess intervention on physical activity levels, cardiorespiratory fitness, and anthropometric characteristics in primary school children.** *Journal of Physical Education and Sport* 2019, **2019**(5):1796-1805.
103. Baptista I, Johansen D, Figueiredo P, Rebelo A, Pettersen SA: **Positional Differences in Peak- and Accumulated- Training Load Relative to Match Load in Elite Football.** *Sports (Basel)* 2019, **8**(1).
104. Baptista I, Johansen D, Figueiredo P, Rebelo A, Pettersen SA: **A comparison of match-physical demands between different tactical systems: 1-4-5-1 vs 1-3-5-2.** *PLoS One* 2019, **14**(4):e0214952.
105. Aars NA, Jacobsen BK, Morseth B, Emaus N, Grimsgaard S: **Longitudinal changes in body composition and waist circumference by self-reported levels of physical activity in leisure among adolescents: the Tromso study, Fit Futures.** *BMC Sports Sci Med Rehabil* 2019, **11**:37.

2018

106. Vitale JA, Lombardi G, Weydahl A, Banfi G: **Biological rhythms, chronodisruption and chrono-enhancement: The role of physical activity as synchronizer in correcting steroids circadian rhythm in metabolic dysfunctions and cancer.** *Chronobiol Int* 2018, **35**(9):1185-1197.
107. Valstad SA, von Heimburg E, Welde B, van den Tillaar R: **Comparison of Long and Short High-Intensity Interval Exercise Bouts on Running Performance, Physiological and Perceptual Responses.** *Sports Med Int Open* 2018, **2**(1):E20-E27.
108. Torstveit MK: **Fysisk aktivitet og helse : fra begrepsforståelse til implementering av kunnskap.** Oslo: Cappelen Damm akademisk; 2018.
109. Stoggl T, Welde B, Supej M, Zoppirolli C, Rolland CG, Holmberg HC, Pellegrini B: **Impact of Incline, Sex and Level of Performance on Kinematics During a Distance Race in Classical Cross-Country Skiing.** *J Sports Sci Med* 2018, **17**(1):124-133.
110. Sharashova E, Wilsgaard T, Njølstad I, Mathiesen EB, Hopstock LA, Ball J, Gerdtts E, Morseth B, Løchen M-L: **6168 Long-term systolic blood pressure trajectories predict risk of incident atrial fibrillation in a general population cohort study.** In., vol. 39; 2018: 1275-1276.
111. Sagelv EH, Engseth TP, Pedersen S, Pettersen SA, Mathisen G, Heitmann KA, Welde B, Thomassen TO, Stoggl TL: **Physiological Comparisons of Elite Male Visma Ski Classics and National Level Cross-Country Skiers During Uphill Treadmill Roller Skiing.** *Front Physiol* 2018, **9**(1523):1523.
112. Riiser A, Andersen V, Castagna C, Pettersen SA, Saeterbakken A, Froyd C, Ylvisaker E, Naess Kjosnes T, Fusche Moe V: **The Construct Validity of the CODA and Repeated Sprint Ability Tests in Football Referees.** *Int J Sports Med* 2018, **39**(8):619-624.
113. Renninger M, Lochen ML, Ekelund U, Hopstock LA, Jorgensen L, Mathiesen EB, Njølstad I, Schirmer H, Wilsgaard T, Morseth B: **The independent and joint associations of physical activity and body mass index with myocardial infarction: The Tromso Study.** *Prev Med* 2018, **116**:94-98.
114. Pettersen SA, Johansen HD, Baptista IAM, Halvorsen P, Johansen D: **Quantified Soccer Using Positional Data: A Case Study.** *Front Physiol* 2018, **9**:866.
115. Morseth B, Lochen ML, Ariansen I, Myrstad M, Thelle DS: **The ambiguity of physical activity, exercise and atrial fibrillation.** *Eur J Prev Cardiol* 2018, **25**(6):624-636.
116. Morseth B, Andersen LB: **Fysisk aktivitet og hjerte- og karsykdom.** In: *Fysisk aktivitet og helse: Fra begrepsforståelse til implementering av kunnskap.* edn.: Cappelen Damm Akademisk; 2018: 453.
117. Krstrup P, Williams CA, Mohr M, Hansen PR, Helge EW, Elbe A-M, De Sousa M, Dvorak J, Junge A, Hammami A et al: **The "Football is Medicine" platform – scientific evidence, large-scale implementation of evidence-based concepts and future perspectives.** In., vol. 28; 2018: 3-7.
118. Johansson J, Hult A, Morseth B, Nordstrom A, Nordstrom P: **Self-reported protein intake and properties of bone in community-dwelling older individuals.** *Arch Osteoporos* 2018, **13**(1):10.
119. Hermansen R, Broderstad AR, Jacobsen BK, Mahonen M, Wilsgaard T, Morseth B: **The impact of changes in leisure time physical activity on changes in cardiovascular risk factors: results from The Finnmark 3 Study and SAMINOR 1, 1987-2003.** *International journal of circumpolar health* 2018, **77**(1):1459145.
120. Dalen T, Overas O, van den Tillaar R, Welde B, von Heimburg ED: **Influence of different soccer-specific maximal actions on physiological, perceptual and accelerometer measurement loads.** *Open Access J Sports Med* 2018, **9**:107-114.
121. Bothun Ø, Zoglonek H: **Daily physical activity of Saami primary school in northern Norway.** *Revija za elementarno izobraževanje* 2018, **11**(4):341-356.
122. Baptista I, Johansen D, Seabra A, Pettersen SA: **Position specific player load during match-play in a professional football club.** *PLoS One* 2018, **13**(5):e0198115.
123. Ball J, Lochen ML, Wilsgaard T, Schirmer H, Hopstock LA, Morseth B, Mathiesen EB, Njølstad I, Tiwari S, Sharashova E: **Sex Differences in the Impact of Body Mass Index on the Risk of Future Atrial Fibrillation: Insights From the Longitudinal Population-Based Tromso Study.** *J Am Heart Assoc* 2018, **7**(9):19.

2017

124. Calogiuri G, Rossi A, Formenti D, Weydahl A: **Sleep recovery in participants after racing in the Finnmarkslop - Europe's longest dog-sled race.** *J Sport Med Phys Fit* 2017, **57**(1-2):103-110.
125. Calogiuri G, Weydahl A: **Health challenges in long-distance dog sled racing: A systematic review of literature.** *International journal of circumpolar health* 2017, **76**(1).
126. Pal L, Boye W, Vebjørn R, Hege M: **Absentee rates in physical education in high schools: The importance of gender and study programmes.** *International Journal of Educational Administration and Policy Studies* 2017, **9**(11):152-161.
127. Riiser A, Pettersen SA, Andersen V, Saeterbakken AH, Froyd C, Ylvisåker E, Moe VF: **Accelerations and high intensity running in field and assistant football referees during match play.** *Science and Medicine in Football* 2017, **1**(3):280-287.
128. Vandbakk K, Welde B, Kruken AH, Baumgart J, Ettema G, Karlsen T, Sandbakk O: **Effects of upper-body sprint-interval training on strength and endurance capacities in female cross-country skiers.** *PLoS One* 2017, **12**(2):e0172706.
129. Vitale JA, Bjørkesett E, Campana A, Panizza G, Weydahl A: **Chronotype and response to training during the polar night: a pilot study.** *International journal of circumpolar health* 2017, **76**(1).
130. Vitale JA, Weydahl A: **Chronotype, Physical Activity, and Sport Performance: A Systematic Review.** *Sports Medicine* 2017:1-10.
131. Welde B, Stoggl TL, Mathisen GE, Supej M, Zoppirolli C, Winther AK, Pellegrini B, Holmberg HC: **The pacing strategy and technique of male cross-country skiers with different levels of performance during a 15-km classical race.** *PLoS One* 2017, **12**(11):e0187111.

2016

132. Andersen TB, Krstrup P, Bendiksen M, Orntoft CO, Randers MB, Pettersen SA: **Kicking Velocity and Effect on Match Performance When using a Smaller, Lighter Ball in Women's Football.** *Int J Sports Med* 2016, **37**(12):966-972.
133. Calogiuri G, Evensen KH, Weydahl A, Andersson K, Patil GG, Ihlebæk C, Raanaas RK: **Green exercise as a workplace intervention to reduce job stress. Results from a pilot study.** *Work : A journal of Prevention, Assessment and rehabilitation* 2016, **53**(1):99-111.
134. Hoaas H, Morseth B, Holland AE, Zanaboni P: **Are Physical activity and Benefits Maintained After Long-Term Telerehabilitation in COPD?** *Int J Telerehabil* 2016, **8**(2):39-48.
135. Mathisen G, Jensen RM, Pettersen SA: **Aerobic Games and Playful Exercises in 9-Year-Old Boys: Intensity and Fitness Effects.** *Revija za Elementarno Izobraževanje* 2016, **9**(1-2):57-64.
136. Morseth B, Graff-Iversen S, Jacobsen BK, Jorgensen L, Nyrnes A, Thelle DS, Vestergaard P, Lochen ML: **Physical activity, resting heart rate, and atrial fibrillation: the Tromso Study.** *Eur Heart J* 2016, **37**(29):2307-2313.
137. Morseth B, Jacobsen BK, Emaus N, Wilsgaard T, Jorgensen L: **Secular trends and correlates of physical activity: The Tromso Study 1979-2008.** *BMC public health* 2016, **16**(1):1215.
138. van Hees VT, Thaler-Kall K, Wolf KH, Brond JC, Bonomi A, Schulze M, Vigl M, Morseth B, Hopstock LA, Gorzelniak L *et al*: **Challenges and Opportunities for Harmonizing Research Methodology: Raw Accelerometry.** *Methods Inf Med* 2016, **55**(6):525-532.

2015

139. Calogiuri G, Nordtug H, Weydahl A: **The potential of using exercise in nature as an intervention to enhance exercise behavior: results from a pilot study.** *Perceptual and Motor Skills* 2015, **121**(2):350-370.
140. Formenti D, Rossi A, Calogiuri G, Thomassen TO, Scurati R, Weydahl A: **Exercise Intensity and Pacing Strategy of Cross-country Skiers during a 10 km Skating Simulated Race.** *Research in Sports Medicine: An International Journal* 2015, **23**(2):126-139.
141. Mathisen G, Pettersen SA: **Anthropometric factors related to sprint and agility performance in young male soccer players.** *Open Access J Sports Med* 2015, **6**:337-342.

142. Mathisen G, Pettersen SA: **Effect of high-intensity training on speed and agility performance in 10-year-old soccer players.** *J Sports Med Phys Fitness* 2015, **55**(1-2):25-29.
143. Mathisen G, Pettersen SA: **The effect of speed training on sprint and agility performance in female youth soccer players.** *Journal of Physical Education and Sport* 2015, **2015**(03):395-399.
144. Mathisen GE, Pettersen SA: **The Effect of Speed Training on Sprint and Agility Performance in 15-Year-Old Female Soccer Players.** *LASE Journal of Sport Science* 2015, **6**(1):61-70.
144. Rossi A, Formenti D, Vitale JA, Calogiuri G, Weydahl A: **The effect of chronotype on psychophysiological responses during aerobic self-paced exercises.** *Perceptual and Motor Skills* 2015, **121**(3):840-855.
146. Vitale JA, Roveda E, Montaruli A, Letizia G, Weydahl A, Caumo A, Carandente F: **Chronotype influences activity circadian rhythm and sleep: Difference in sleep quality between weekdays and weekend.** *Chronobiology International* 2015, **32**(3):405-415.

2014

147. Morseth B, Løchen M: **Fysisk aktivitet og effekt på hjertesykdom og død.** *Hjerteforum* 2014, **27**(1):26-32.
148. Stokke A, Weydahl A, Calogiuri G: **Barn og fysisk aktivitet i barnehagen: Hvordan kan aktivitetsnivået dokumenteres?** *Nordisk Barnehageforskning* 2014, **8**(3):1-18.
149. Weydahl A, Calogiuri G: **Hydration in female drivers in a 1044 km dog sled race in Finnmark.** In., vol. 25; 2014: 82-88.

2013

150. Calogiuri G, Mikkilä SP, Weydahl A: **Can promotion of outdoor activities impact people's vitamin D levels? Promising finding from a pilot study.** *Proceedings in Electronic International Interdisciplinary Conference* 2013, **2**:276-280.
151. Calogiuri G, Weydahl A: **Effects of Sleep Loss on the Rest-Activity Circadian Rhythm of Helpers Participating in Continuous Dogsled Races.** *Biological Research for Nursing* 2013, **16**(2):123-133.
152. Calogiuri G, Weydahl A, Carandente F: **Methodological Issues for Studying the Rest-Activity Cycle and Sleep Disturbances: A Chronobiological Approach Using Actigraphy Data.** *Biological Research for Nursing* 2013, **15**(1):5-12.
153. Morseth B, Melbye H, Waterloo S, Thomassen MR, Risberg MJ, Emaus N: **Cross-sectional associations between prevalent vertebral fracture and pulmonary function in the sixth Tromso study.** *BMC Geriatr* 2013, **13**:116.
154. Rossi A, Calogiuri G, Formenti D, Vitale JA, Weydahl A: **The chronotype can influence the perceived exertion during self-paced exercise performed at different times of day.** In.; 2013: 55-56.
155. Vitale JA, Calogiuri G, Weydahl A: **Influence of chronotype on responses to a standardized, self-paced walking task in the morning vs afternoon: A pilot study.** *Perceptual and Motor Skills* 2013, **116**(3):1020-1028.
156. Waterloo S, Sogaard AJ, Ahmed LA, Damsgard E, Morseth B, Emaus N: **Vertebral fractures and self-perceived health in elderly women and men in a population-based cross-sectional study: the Tromso Study 2007-08.** *BMC Geriatr* 2013, **13**:102.