Curriculum of Teaching and Scientific Activity, and List of Publications

Barbara Pellegrini

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Education

- Bachelor's Degree in Physics, specialization in Biophysical Physics, with focus on Biophysics, Biochemistry, Atmospheric Physics, and Medical Physics, obtained from the University of Trento with a score of 106/110. Thesis Title: "Spontaneous Oscillations in the Cardiovascular System. Linear and Nonlinear Analysis." Supervisor: Prof. Renzo Antolini. November 1999.
- Doctoral Degree in "Exercise Science and Human Movement Sciences" within the doctoral school of "Translational Biomedical Sciences," a three-year program established at the University of Verona. 24th cycle. Project Title: "Biomechanical and Physiological Characterization of Cross-Country Skiing Techniques. Analysis of Technique Selection." Supervisors: Prof. Federico Schena, Prof. Paola Zamparo. Degree awarded in June 2012.

Professional Experiences

• December 1999 - January 2000: Consultancy assignment for research activities in the field of nonlinear modeling of cardiovascular variability series at the Institute for Scientific and Technological Research (IRST) in Povo (TN).

• February 2000 - July 2000 and September 2000 - March 2001: Research and advanced training scholarship for collaboration in research activities at the Movement Analysis Laboratory of CeBiSM, University of Trento.

• April 2001 - October 2001: Coordinated and Continuous Collaboration Contract at CeBiSM, Center for Biomedical Engineering and Motor Sciences, University of Trento.

• November 2001 - November 2007: Fixed-term contract holder with the title of experienced technician, category D1, technical area, scientific and data processing technician at CeBiSM, Center for Biomedical Engineering and Motor Sciences, University of Trento, University of Trento.

• February 2007 - July 2011: Permanent contract holder with the title of experienced technician, category D1, technical area, scientific and data processing technician at CeBiSM, University of Trento. Starting from July 2009, recognition of Specialist Function status based on the evaluation by the Evaluation Committee of the Office for Evaluation of Research and Organization of the University of Trento, in reference to the technical activity at CeBiSM.

• From July 15, 2011, to July 2, 2013, and from December 20, 2013, to December 20, 2016: Unconfirmed researcher, and from December 20, 2016, confirmed researcher in the disciplinary sector M-EDF/02 – Methods and Teaching of Sports Activities at the University of Verona, Department of Neuroscience, Biomedicine, and Movement.

• From May 1, 2022: Associate Professor of Sport Sciences and Methodology (MEDF-01/B; formerly M-EDF/02 – Methods and Teaching of Sports Activities), University of Verona.

- Affiliated by the Department of Neurosciences, Biomedicine and Movement Sciences: 1 May 2022–28 February 2023 and since 16 November 2025 to present.
- Affiliated Department of Engineering for Innovation Medicine: 1 March 2023–15 November 2025.

Qualifications

- National scientific qualification for Associate Professor - sector 06/N2 - EXERCISE AND SPORT SCIENCES from 10/04/2017.
- National scientific qualification for Full Professor - sector 06/N2 - EXERCISE AND SPORT SCIENCES from 19/09/2019.

Teaching

Participation in Faculty Boards and Other Organizational Roles

• Member of the Programme Review Panel Quality Assurance, (commissione AQ) for the Bachelor's Degree in Movement Science, Sports and Wellbeing, University of Trento, inter-university programme with the University of Verona. Academic Year 2024/2025 – present

• Member of the Board of the National PhD Program in Motor and Sport Sciences, lead university: University of Verona. From the academic year 2023/2024 to present

• Chair of the Internship and Student Career Committee for the Master's Degree in Sports and Physical Performance Sciences, an inter-university program between the University of Verona and the University of Trento. From the academic year 2018/2019 (first year of activation) to the present.

• Academic Supervisor for research internships for the Master's Degree in Sports and Physical Performance Sciences, an inter-university program between the University of Verona and the University of Trento. From the academic year 2018/2019 (first year of activation) to the present.

• Member of the Didactic Board for the Bachelor's Degree in Motor Sciences - Department of Neuroscience, Biomedicine, and Movement, University of Verona. From the academic year 2012/2013 to the present.

• Member of the Board of the Ph.D. in Neuroscience, Psychological and Psychiatric Sciences, Department of Neuroscience, Biomedicine, and Movement, University of Verona. From April 17, 2015, to the present.

• Member of the Scientific Committee of the First-Level University Master's Degree in National Nordic Walking Coach (Level I), University of Verona. From the academic year 2013/2014 to the academic year 2014/2015.

• Member of the Board for the Ph.D. in Exercise Science and Human Movement, Translational Biomedical Sciences Doctoral School, University of Verona; from October 24, 2012, until the closure of the program, last cycle activated in 2013.

Teaching Activities in Bachelor's Degree Courses

• Instructor for the "General Part" module (3 credits) within the course "Techniques and Methodologies of Outdoor and Mountain Sports," Field of study B; Discipline: M-EDF/02, Master's Degree in Sports and Physical Performance Sciences, an inter-university program between the University of Verona and the University of Trento; from the academic year 2021/2022 to the present.

• Course coordinator for the "Movement Analysis in Mountain Sports" course; 6 credits; Field of study B; Discipline: M-EDF/02, Master's Degree in Sports and Physical Performance Sciences, an inter-university program between the University of Verona and the University of Trento; from the academic year 2018/2019 to the present.

• Course coordinator for the "Technique and Teaching of Nordic Walking" course (3 credits) - Field of study D; Discipline: M-EDF/02, Master's Degree in Preventive and Adaptive Motor Sciences, Department of Neuroscience, Biomedicine, and Movement, University of Verona; from the academic year 2012/2013 to the present.

• Course coordinator for the "Technologies and Methods for Functional Assessment" course (6 credits), Master's Degree in Sports and Physical Performance Sciences, Department of Neuroscience, Biomedicine, and Movement, University of Verona; from the academic year 2014/2015 to the academic year 2017/2018.

• Course coordinator for the "Applied Research in Sports" course (3 credits), Master's Degree in Preventive and Adaptive Motor Sciences, Department of Neuroscience, Biomedicine, and Movement, University of Verona; from the academic year 2013/2014 to the academic year 2016/2017.

Teaching Activities in Master's Degree Courses

• Course coordinator for the module "Methodological Foundations for Functional Assessment: Analysis of Nordic Walking Equipment Characteristics" in the First-Level University Master's Degree in National Nordic Walking Coach (Level I), University of Verona, from the academic year 2013/2014 to the academic year 2014/2015.

• Course coordinator for the module "Biomechanics of Locomotion with Poles" in the First-Level University Master's Degree in National Nordic Walking Coach (Level I), University of Verona, from the academic year 2013/2014 to the academic year 2014/2015.

Supervision of Bachelor's and Master's Theses

• Since the academic year 2012/2013, supervisor of more than 25 Bachelor's theses in Motor and Sports Activity Sciences, Department of Neuroscience, Biomedicine, and Movement, University of Verona.

• Since the academic year 2016/2017, supervisor of more than 30 Master's theses in Sports and Physical Performance Sciences, Department of Neuroscience, Biomedicine, and Movement, University of Verona (starting from the academic year 2018/2019, in the inter-university program between the University of Verona and the University of Trento).

• Since the academic year 2016/2017, supervisor of 10 Master's theses in Preventive and Adaptive Motor Sciences, Department of Neuroscience, Biomedicine, and Movement, University of Verona.

Doctoral Student Mentoring

Supervisor or co-supervisor of 9 PhD students enrolled in the following doctoral programmes: Exercise Science and Human Movement, University of Verona; Neuroscience, Psychological and Psychiatric Sciences, University of Verona; and the National PhD Programme in Kinesiology and Sport Sciences, University of Verona.

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Participation in Doctoral Thesis Examination Committees

Year: 2026, June 5
Role: Member of the commission
University: Dottorato di Ricerca in "Scienze del Movimento Umano e dello Sport" Università di Roma Foro Italico
Candidate: Bandiera David
Thesis title: "Heat stress risk in elite endurance Athletics: policy evaluation, epidemiology, and physiological monitoring approaches".

Year: 2025, July 15
Role: Member of the commission
University: Doctoral Program in Neuroscience, Psychological and Psychiatric Sciences, and Movement Sciences, University of Verona
Candidate: Salaorni Francesca
Thesis title: "Digital Telemedicine in Improving Health, Social, and Economic Outcomes in Patients with Functional Motor Disorders".

Year: 2024, June 28
Role: Member of the commission - President
University: Dottorato di ricerca in "Scienze Biomediche e Biotecnologiche", Università degli studi di Udine
Candidate: Mattia D'alleva
Thesis title: "The effects of Polarized training and High Intensity Interval training on body composition, aerobic capacities and fat oxidation in individuals with obesity".

Year: 2023
Role: Reviewer/preliminary examiner
University: Faculty of Sport and Health Sciences at the University of Jyväskylä (Finland)
Candidate: Shuang Zhao
Thesis title: "Biomechanical Characteristics in Treadmill Roller Skiing".

Year: 2022, June 29
Role: Reviewer/preliminary examiner and member of the commission
University: The Faculty of Education and Arts, Nord University, (Norway).
Candidate: Per-Øyvind Torvik
Thesis title: "Training and pole length manipulation for optimizing physiological capacities and technique to improve performance in Long-distance and Olympic-distance cross-country skiing".

Year: 2018 - November 8
Role: Reviewer/preliminary examiner and member of the commission
University: Faculty of Medicine and Health Sciences, Department of Neuromedicine and Movement, Norwegian University of Science and Technology (Norway).
Candidate: Jørgen Danielsen
Thesis title: "Energetics and dynamics of double poling cross-country skiing".

Year: 2017
Role: Reviewer/preliminary examiner
University: Doctoral Degree in Natural Sciences at the Paris Lodron University of Salzburg (Austria) and the University of Jyväskylä (Finland).
Candidate: Caroline Göpfert
Thesis title: "Biomechanics of speed adaptation and functionality of arm swing in cross-country skiing".

Scientific Activities

Participation in Research Projects with National and International Collaborations

• Participation in research activities in collaboration with external institutions within the project funded by the Fédération Internationale de Football Association (FIFA), aimed at studying the effects of the FIFA 11+ program on warming up and injuries. Responsible for functional assessment of subjects. Scientific Director of the project: Franco Impellizzeri. Collaborating research institutes: FIFA Medical Assessment and Research Centre, Schulthess Klinik, Zurich, Switzerland.

• Participation in research activities for a project focused on the biomechanics of cross-country skiing on snow, with the role of responsible for kinematic evaluations. Implementation period: from spring 2011. Scientific Director of the Project: Prof. Hans-Christer Holmberg. Collaborating research members: Thomas Stöggl, Department of Sport Science and Kinesiology, University of Salzburg, Austria; Øyvind Sandbakk, Department of Human Movement Science, Norwegian University of Science and Technology, Trondheim, Norway. Subsequent involvement in a similar initiative in spring 2016.

• Appointed by the director of CeRiSM, the Research Center of the University of Verona, to conduct scientific studies within the established research line of the center, titled "Nordic Walking: Biomechanical Peculiarities and Well-being Effects" (Attachment C); Collaborative work carried out with national and international collaborations, since 2018, thanks to the scientific responsibility of "Cooperint 2018 - Action 3" invited researcher: Prof. Leonardo Alexandre Peyre-Tartaruga, University of Verona.

Scientific Responsibilities in International Research Projects

• Scientific responsibility for the project titled "Devices for Motor Control Assessment and 'Wearable' Biofeedback: From the Laboratory to Technology," submitted to the "University Joint Projects 2016" Call for Joint Projects with Companies and Entities of the University of Verona. Project approved for funding following scientific evaluations by 2 experts randomly selected from the CINECA database of the Ministry of Education, University, and Research (MIUR).

• Unit leader for the University of Verona in the project submitted to the Call: H2020-ICT-2014-1 Funding scheme: Research and Innovation action Proposal number: 644314 Proposal acronym: ET4IS Duration (months): 36 Proposal title: “Embodied Training for Inclusive Sports.” The project was positively evaluated with a Total score: 11.00 (Threshold: 10.00) but was not funded.

• Principal scientific responsibility for the two-year project "Innovation in Mountain Footwear: Alpine Ski Boot - Comfort, Fatigue, and Performance," submitted to the "Research and Development 2019" Call of the CARITRO Foundation; funded for 98,000 euros.

• Principal Investigator (PI).Project title: CareMe-Bike: an e-bike with pedal assistance based on bioenergetic models for health promotion through personalized physical activity. Call: PRIN 2020 – Progetti di Ricerca di Rilevante Interesse Nazionale, Italian Ministry of University and Research (MUR) Duration: 36 months, Total project cost: €1,197,737, Requested MUR funding: €819,861. Status: Not funded. Positively evaluated with a score of 83/100 (minimum fundability threshold: 75/100 (individual evaluations: 73, 88, 88); Research Project Quality: 33.7/40

Organizational Roles in Congresses, Scientific Societies, and Sports Federations

• Member of the "International Biathlon Union Research Grant Working Group" (IBU-RGWG), a body of the International Biathlon Union for evaluating research projects eligible for funding by the federation. From August 2021.

• Member of the Executive Board of ICSS (International College on Science and Skiing). President: Thomas Stöggl, University of Salzburg (AUT); Other members: David Bacharach, Professor Emeritus, St Cloud State University (USA); Hans-Christer Holmberg, Mid Sweden University (SWE); Vesa Linnamo, University of Jyväskylä (FIN); Lisa Steidl-Müller, University of Innsbruck (AUT). From March 3, 2019.

• Member of the Scientific Committee of the "8th International Congress on Science and Skiing," March 11-15, 2019, Vuokatti (FIN). Chair of the Committee: Prof. Stefan Lindinger, University of Gothenburg (SWE), Congress Chair. Prof. Vesa Linnamo, University of Jyväskylä (FIN).

• Co-coordinator, along with Prof. Maria Francesca Piacentini, University of Roma Foro Italico, of the "Sport, Training & Performance" Study Group of SISMES, the Italian Society of Motor and Sports Sciences. Since May 2017.

• Organizing Committee Member of the "6th International Congress of Mountain Sport and Health," Rovereto, December 12-13, 2015. Organized by CeRiSM, University of Verona.

• Affiliation to SISMES, the Italian Society of Motor and Sports Sciences, as an ordinary member following approval by the SISMES Board of Directors and Assembly – since September 27, 2014.

• Organizing Committee Member of the "5th International Congress of Mountain Sport and Health," Rovereto, December 9-10, 2013. Organized by CeRiSM, University of Verona.

Scientific publications

Scopus EXPORT DATE: 27 August 2026

H-index: 28

Documents: 113 (Article: 101; Review: 3; Conference Paper: 7; Editorial 1:Letter: 1)

Total citations: 2133 Citations by 1538 documents

Documents list: (Scopus)

(If the document type is different from full text article, this is indicated in parentheses.)

1. Fruet D.; Zignoli A.; Modena R.; Pellegrini B.; Gastaldi L.; Bortolan L. (2026). Design and development of a feedback system for automatic treadmill speed adaptation. Proceedings of the Institution of Mechanical Engineers, Part P: Journal of Sports Engineering and Technology, 240(2), 370–382. https://doi.org/10.1177/17543371241257996

2. Zoppirolli C.; Pellegrini B.; Mezzaro E.; Inderst A.; Schena F.; Bortolan L. (2026). Postural and aiming control in dry and real biathlon standing shooting. Sport Sciences for Health, 22(3), 200. https://doi.org/10.1007/s11332-026-01789-4

3. Cuniberti G.C.; Callovini A.; Mattivi M.; Palumbo M.; Forrer T.; Bettega S.; Pedrinolla A.; Danese E.; Ugel S.; Fornasiero A.; Zoppirolli C.; Schena F.; Pellegrini B.; Bortolan L. (2026). Timing Matters: Effectiveness of Compressive Garments on Recovery in Trail Runners. Journal of Strength and Conditioning Research, Publish Ahead of Print. https://doi.org/10.1519/JSC.0000000000005501

4. Giovanelli N.; Mari L.; Pellegrini B.; Bortolan L.; d'Alleva M.; Schena F.; Lazzer S. (2026). The impact of pole use on vertical cost of transport and foot force during uphill treadmill walking before and after a simulated trail running competition. European Journal of Applied Physiology, 126(1), 249–258. https://doi.org/10.1007/s00421-025-05881-4

5. Bettega S.; Pellegrini B.; Viscioni G.; Fornasiero A.; Bortolan L.; Schena F.; Zoppirolli C. (2026). Kinematics and performance on uphill and downhill trail running in elite and well-trained athletes. International Journal of Sports Science and Coaching, 21(1), 444–454. https://doi.org/10.1177/17479541251352176

6. Fornasiero A.; Savoldelli A.; Mattivi M.; Forrer T.; Todesco B.; Cuniberti G.C.; Callovini A.; Schena F.; Holmberg H.-C.; Pellegrini B.; Bortolan L. (2025). Competitive Demands and Performance-Determining Variables in Olympic Ski Mountaineering. International Journal of Sports Physiology and Performance, 20(6), 786–795. https://doi.org/10.1123/ijspp.2024-0451

7. Trabucchi P.; Pellegrini B.; Savoldelli A.; Giacoma G.; Vergine I.; Galimberti C.; Garofalo S.; Schena F. (2025). It's not difficulty that matters, but strategy: Perceived stressor, functional and dysfunctional coping strategies in ultra-trails of extreme duration. PLOS ONE, 20(9 September), e0332058. https://doi.org/10.1371/journal.pone.0332058

8. Bettega S.; Bortolan L.; Stella F.; Tarperi C.; Schena F.; Pellegrini B.; Zoppirolli C. (2025). Energetic and neuromuscular impact of running on even or uneven surfaces in standardized laboratory conditions. Journal of Electromyography and Kinesiology, 81, 102987. https://doi.org/10.1016/j.jelekin.2025.102987

9. Laezza L.; Vacondio M.; Fornasiero A.; Pellegrini B.; Pasini M.; Brondino M.; De Dominicis S. (2025). Evaluating the benefits of green exercise: A randomized controlled trial in natural and built environments assessed for their restorative properties. Psychology of Sport and Exercise, 80, 102883. https://doi.org/10.1016/j.psychsport.2025.102883

10. Claudel J.; Zoppirolli C.; Pellegrini B.; Schena F.; Bortolan L. (2025). Real-Time Feedback for Simulated Nordic and Para Nordic Skiing on a Treadmill: A New Training and Analysis Tool. 2025 IEEE International Workshop on Sport,

Technology and Research, STAR 2025, pp. 54–59. https://doi.org/10.1109/STAR66750.2025.11264791 (Conference paper)

11. Callovini A.; Fornasiero A.; Savoldelli A.; Dorelli G.; Decet M.; Bortolan L.; Pellegrini B.; Schena F. (2025). Combined effects of normobaric hypoxia and cold on respiratory system responses to high-intensity exercise. Experimental Physiology, 110(12), 1892–1903. https://doi.org/10.1113/EP092468

12. Pighin S.; Fornasiero A.; Testoni M.; Bogani A.; Bonini N.; Pellegrini B.; Schena F.; Savadori L. (2025). Stress awareness and decision-making under uncertainty: Gender-specific effects of mild hypoxia in the Iowa Gambling Task. Cognitive, Affective and Behavioral Neuroscience, 25(6), 1751–1764. https://doi.org/10.3758/s13415-025-01320-1

13. Buoite Stella A.; Ruzza F.R.; Callovini A.; Bortolan L.; Martini M.; Sabot R.; Deodato M.; Murena L.; Schena F.; Pellegrini B. (2025). Immediate effects of sports massage on muscle strength, power and balance after simulated trail running in the cold. Sport Sciences for Health, 21(2), 1107–1117. https://doi.org/10.1007/s11332-025-01348-3

14. Perucco G.; Roi G.S.; Callovini A.; Pellegrini B.; Cappelletti D.; Egger T.; Gardetto A. (2024). Return to sport after transtibial amputation and targeted sensory reinnervation: a case report; [Ritorno allo sport dopo amputazione transtibiale e targeted sensory reinnervation: caso clinico]. Medicina dello Sport, 77(4), 491–500. https://doi.org/10.23736/S0025-7826.24.04447-8

15. Bongiorno G.; Sisti G.; Dal Mas F.; Biancuzzi H.; Varrecchia T.; Chini G.; Ranavolo A.; Pellegrini B.; Bortolan L.; Miceli L. (2024). The Kinematic and Electromyographic Analysis of Roller Skating at Different Speeds on a Treadmill: A Case Study. Sensors, 24(17), 5738. https://doi.org/10.3390/s24175738

16. Palumbo M.; Modena R.; Bortolan L.; Skafidas S.; Callovini A.; Savoldelli A.; Gilli F.; Fornasiero A.; Schena F.; Pellegrini B.; Zoppirolli C. (2024). Effects of a similar amount of regular non-structured or competitive physical activity across late adulthood: a cross-sectional study. Frontiers in Sports and Active Living, 6, 1416080. https://doi.org/10.3389/fspor.2024.1416080

17. Bortolan L.; Savoldelli A.; Fornasiero A.; Nanni S.; Gazzi L.; Decet M.; Zoppirolli C.; Schena F.; Pellegrini B. (2024). Effects of slight ski boot weight variations on ski mountaineering energy cost and mechanical work at race intensity. Sport Sciences for Health, 20(3), 975–982. https://doi.org/10.1007/s11332-024-01191-y

18. Zoppirolli C.; Modena R.; Bortolan L.; Schena F.; Pellegrini B. (2024). Non-specific and ski-specific performance development in peri-pubertal cross-country skiers. European Journal of Applied Physiology, 124(5), 1461–1474. https://doi.org/10.1007/s00421-023-05372-4

19. Callovini A.; Fornasiero A.; Savoldelli A.; Decet M.; Skafidas S.; Pellegrini B.; Bortolan L.; Schena F. (2024). Independent, additive and interactive effects of acute normobaric hypoxia and cold on submaximal and maximal endurance exercise. European Journal of Applied Physiology, 124(4), 1185–1200. https://doi.org/10.1007/s00421-023-05343-9

20. Pellegrini B.; Hettinga F.J.; Mourot L.D.; Vernillo G.; Schena F. (2023). State of the art and perspectives of sports science in the run-up to the Milano Cortina 2026 Olympic Winter Games. Sport Sciences for Health, 19(4), 1039–1042. https://doi.org/10.1007/s11332-023-01109-0 (Editorial)

21. Giovanelli N.; Pellegrini B.; Bortolan L.; Mari L.; Schena F.; Lazzer S. (2023). Do poles really “save the legs” during uphill pole walking at different intensities?. European Journal of Applied Physiology, 123(12), 2803–2812. https://doi.org/10.1007/s00421-023-05254-9

22. Zignoli A.; Fornasiero A.; Gilli F.; Pellegrini B.; Schena F. (2023). How the Oxynet web applications are used to crowdsource and interpret cardiopulmonary exercising tests data. Biomedical Signal Processing and Control, 85, 104836. https://doi.org/10.1016/j.bspc.2023.104836

23. Biino V.; Pellegrini B.; Zoppirolli C.; Lanza M.; Gilli F.; Giuriato M.; Schena F. (2023). Gross motor coordination in relation to weight status: a longitudinal study in children and pre-adolescents. Frontiers in Public Health, 11, 1242712. https://doi.org/10.3389/fpubh.2023.1242712

24. Bortolan L.; Savoldelli A.; Schena F.; Zoppirolli C.; Modena R.; Pellegrini B. (2023). Development of a Low-Cost System for Analytical Performance Analysis in Alpine Skiing. 2023 IEEE International Workshop on Sport, Technology and Research, STAR 2023 - Proceedings, pp. 104–109. https://doi.org/10.1109/STAR58331.2023.10302441 (Conference paper)

25. Fornasiero A.; Fornoni S.; Callovini A.; Todesco B.; Savoldelli A.; Schena F.; Holmberg H.-C.; Pellegrini B.; Bortolan L. (2023). Analysis of Sprint Ski Mountaineering Performance. International Journal of Sports Physiology and Performance. https://doi.org/10.1123/ijspp.2023-0075

26. Modena R.; Salaorni F.; Schena F.; Pellegrini B.; Bortolan L. (2023). GPS Devices for Match Analysis in Soccer. 2023 IEEE International Workshop on Sport, Technology and Research, STAR 2023 - Proceedings, pp. 5–7. https://doi.org/10.1109/STAR58331.2023.10302650 (Conference paper)

27. Fornasiero A.; Zignoli A.; Pellegrini B.; Schena F.; Doucende G.; Mourot L. (2023). The effects of a 6-hour ultra-endurance run on postexercise parasympathetic reactivation responses. Journal of Sports Medicine and Physical Fitness, 63(6), 713–721. https://doi.org/10.23736/S0022-4707.23.14734-7

28. Bortolan L.; Pellegrini B.; Verdel N.; Holmberg H.-C.; Supej M. (2023). Development of Equipment for Ski Mountaineering, a New Olympic Event. Applied Sciences (Switzerland), 13(9), 5339. https://doi.org/10.3390/app13095339

29. Pellegrini B.; Mocera F.; Soma A.; Russo C.; Schena F.; Bortolan L. (2022). Nordic Walking technique evaluation with sensorized walking poles. 2022 IEEE International Workshop on Sport, Technology and Research, STAR 2022 - Proceedings, pp. 47–50. https://doi.org/10.1109/STAR53492.2022.9859951 (Conference paper)

30. Bortolan L.; Savoldelli A.; Schena F.; Pellegrini B. (2022). Standardized procedure to measure ankle range of motion of ski mountaineering boots. 2022 IEEE International Workshop on Sport, Technology and Research, STAR 2022 - Proceedings, pp. 189–194. https://doi.org/10.1109/STAR53492.2022.9859713 (Conference paper)

31. Peyré-Tartaruga L.A.; Boccia G.; Feijó Martins V.; Zoppirolli C.; Bortolan L.; Pellegrini B. (2022). Margins of stability and trunk coordination during Nordic walking. Journal of Biomechanics, 134, 111001. https://doi.org/10.1016/j.jbiomech.2022.111001

32. Fornasiero A.; Savoldelli A.; Zignoli A.; Callovini A.; Decet M.; Bortolan L.; Schena F.; Pellegrini B. (2022). Eager to set a record in a vertical race? Test your VO2max first!. Journal of Sports Sciences, 40(22), 2544–2551. https://doi.org/10.1080/02640414.2023.2172801

33. Almqvist A.; Pellegrini B.; Lintzén N.; Emami N.; Holmberg H.-C.; Larsson R. (2022). A Scientific Perspective on Reducing Ski-Snow Friction to Improve Performance in Olympic Cross-Country Skiing, the Biathlon and Nordic Combined. Frontiers in Sports and Active Living, 4, 844883. https://doi.org/10.3389/fspor.2022.844883

34. Pellegrini B.; Zoppirolli C.; Stella F.; Bortolan L.; Holmberg H.-C.; Schena F. (2022). Biomechanical analysis of the "running" vs. "conventional" diagonal stride uphill techniques as performed by elite cross-country skiers. Journal of Sport and Health Science, 11(1), 30–39. https://doi.org/10.1016/j.jshs.2020.04.011

35. Trabucchi P.; Savoldelli A.; Mourot L.; Vacher P.; Pellegrini B.; Schena F. (2022). Relationship Between Cognitive Appraisal of Control and Cardiac Vagal Regulation During an Unsupported Ski Crossing of Greenland. Frontiers in Physiology, 13, 804710. https://doi.org/10.3389/fphys.2022.804710

36. Modena R.; Fornasiero A.; Callovini A.; Savoldelli A.; Pellegrini B.; Schena F.; Bortolan L. (2022). Exercising at the time of the COVID-19 pandemic: acute physiological, perceptual and performance responses of wearing face masks during sports activity. Journal of Sports Medicine and Physical Fitness, 62(11), 1329–1337. https://doi.org/10.23736/S0022-4707.21.12668-4

37. Callovini A.; Fornasiero A.; Savoldelli A.; Stella F.; Low D.A.; Pellegrini B.; Schena F.; Bortolan L. (2021). Effects of three-exercise sessions in the heat on endurance cycling performance. Journal of Thermal Biology, 98, 102925. https://doi.org/10.1016/j.jtherbio.2021.102925

38. Pellegrini B.; Sandbakk Ø.; Stöggl T.; Supej M.; Ørtenblad N.; Schürer A.; Steiner T.; Lunina A.; Manhard C.; Liu H.; Ohtonen O.; Zoppirolli C.; Holmberg H.-C. (2021). Methodological Guidelines Designed to Improve the Quality of Research on Cross-Country Skiing. Journal of Science in Sport and Exercise, 3(3), 207–223. https://doi.org/10.1007/s42978-021-00112-6 (Review)

39. Modena R.; Togni A.; Fanchini M.; Pellegrini B.; Schena F. (2021). Influence of pitch size and goalkeepers on external and internal load during small-sided games in amateur soccer players. Sport Sciences for Health, 17(3), 797–805. https://doi.org/10.1007/s11332-021-00766-3

40. Muollo V.; Rossi A.P.; Milanese C.; Zamboni M.; Rosa R.; Schena F.; Pellegrini B. (2021). Prolonged unsupervised Nordic walking and walking exercise following six months of supervision in adults with overweight and obesity: A randomised clinical trial. Nutrition, Metabolism and Cardiovascular Diseases, 31(4), 1247–1256. https://doi.org/10.1016/j.numecd.2020.12.012

41. Carvalho A.R.D.; Coimbra R.D.S.; Thomas E.M.; Paz M.C.R.; Pellegrini B.; Peyré-Tartaruga L.A. (2021). The Entrainment Frequency of Cardiolocomotor Synchronization in Long-Distance Race Emerges Spontaneously at the Step Frequency. Frontiers in Physiology, 11, 583030. https://doi.org/10.3389/fphys.2020.583030

42. Bortolan L.; Savoldelli A.; Pellegrini B.; Modena R.; Sacchi M.; Holmberg H.-C.; Supej M. (2021). Ski Mountaineering: Perspectives on a Novel Sport to Be Introduced at the 2026 Winter Olympic Games. Frontiers in Physiology, 12, 737249. https://doi.org/10.3389/fphys.2021.737249

43. Fornasiero A.; Zignoli A.; Rakobowchuk M.; Stella F.; Savoldelli A.; Skafidas S.; Schena F.; Pellegrini B.; Mourot L. (2021). Post-exercise cardiac autonomic and cardiovascular responses to heart rate-matched and work rate-matched hypoxic exercise. European Journal of Applied Physiology, 121(7), 2061–2076. https://doi.org/10.1007/s00421-021-04678-5

44. Fornasiero A.; Savoldelli A.; Stella F.; Callovini A.; Bortolan L.; Zignoli A.; Low D.A.; Mourot L.; Schena F.; Pellegrini B. (2021). Response to Chaen and Trapellieni re: "Shortening Work-Rest Durations Reduces Physiological and Perceptual Load during Uphill Walking in Simulated Cold High-Altitude Conditions," by Fornasiero et al.. High Altitude Medicine and Biology, 22(1), 105–106. https://doi.org/10.1089/ham.2020.0217 (Letter)

45. Zoppirolli C.; Bortolan L.; Schena F.; Pellegrini B. (2020). Double poling kinematic changes during the course of a long-distance race: effect of performance level. Journal of Sports Sciences, 38(8), 863–872. https://doi.org/10.1080/02640414.2020.1736246

46. Mourot L.; Fornasiero A.; Rakobowchuk M.; Isacco L.; Brighenti A.; Stella F.; Zignoli A.; Pellegrini B.; Tarperi C.; Schena F. (2020). Post-exercise hypotension and reduced cardiac baroreflex after half-marathon run: In men, but not in women. International Journal of Environmental Research and Public Health, 17(17), 1–13. https://doi.org/10.3390/ijerph17176337

47. Zoppirolli C.; Modena R.; Fornasiero A.; Bortolan L.; Skafidas S.; Savoldelli A.; Schena F.; Pellegrini B. (2020). Talent Development in Young Cross-Country Skiers: Longitudinal Analysis of Anthropometric and Physiological Characteristics. Frontiers in Sports and Active Living, 2, 111. https://doi.org/10.3389/fspor.2020.00111

48. Gomeñuka N.A.; Oliveira H.B.; da Silva E.S.; Passos-Monteiro E.; da Rosa R.G.; Carvalho A.R.; Costa R.R.; Rodríguez Paz M.C.; Pellegrini B.; Peyré-Tartaruga L.A. (2020). Nordic walking training in elderly, a randomized clinical trial. Part II: Biomechanical and metabolic adaptations. Sports Medicine - Open, 6(1), 3. https://doi.org/10.1186/s40798-019-0228-6

49. Mourot L.; Fornasiero A.; Rakobowchuk M.; Skafidas S.; Brighenti A.; Stella F.; Zignoli A.; Savoldelli A.; Pellegrini B.; Danese E.; Lippi G.; Tarperi C.; Schena F. (2020). Similar cardiovascular and autonomic responses in trained type 1

diabetes mellitus and healthy participants in response to half marathon. Diabetes Research and Clinical Practice, 160, 107995. https://doi.org/10.1016/j.diabres.2019.107995

50. Zoppirolli C.; Hébert-Losier K.; Holmberg H.-C.; Pellegrini B. (2020). Biomechanical determinants of cross-country skiing performance: A systematic review. Journal of Sports Sciences, 38(18), 2127–2148. https://doi.org/10.1080/02640414.2020.1775375

51. Zignoli A.; Fornasiero A.; Ragni M.; Pellegrini B.; Schena F.; Biral F.; Laursen P.B. (2020). Estimating an individual's oxygen uptake during cycling exercise with a recurrent neural network trained from easy-to-obtain inputs: A pilot study. PLoS ONE, 15(3), e0229466. https://doi.org/10.1371/journal.pone.0229466

52. Fornasiero A.; Savoldelli A.; Stella F.; Callovini A.; Bortolan L.; Zignoli A.; Low D.A.; Mourot L.; Schena F.; Pellegrini B. (2020). Shortening Work-Rest Durations Reduces Physiological and Perceptual Load during Uphill Walking in Simulated Cold High-Altitude Conditions. High Altitude Medicine and Biology, 21(3), 249–257. https://doi.org/10.1089/ham.2019.0136

53. Muollo V.; Rossi A.P.; Milanese C.; Masciocchi E.; Taylor M.; Zamboni M.; Rosa R.; Schena F.; Pellegrini B. (2019). The effects of exercise and diet program in overweight people – Nordic walking versus walking. Clinical Interventions in Aging, 14, 1555–1565. https://doi.org/10.2147/CIA.S217570

54. Fornasiero A.; Skafidas S.; Stella F.; Zignoli A.; Savoldelli A.; Rakobowchuk M.; Pellegrini B.; Schena F.; Mourot L. (2019). Cardiac Autonomic and Physiological Responses to Moderate-intensity Exercise in Hypoxia. International Journal of Sports Medicine, 40(14), 886–896. https://doi.org/10.1055/a-1015-0647

55. Zignoli A.; Fornasiero A.; Stella F.; Pellegrini B.; Schena F.; Biral F.; Laursen P.B. (2019). Expert-level classification of ventilatory thresholds from cardiopulmonary exercising test data with recurrent neural networks. European Journal of Sport Science, 19(9), 1221–1229. https://doi.org/10.1080/17461391.2019.1587523

56. Zignoli A.; Fornasiero A.; Bertolazzi E.; Pellegrini B.; Schena F.; Biral F.; Laursen P.B. (2019). State-of-the art concepts and future directions in modelling oxygen consumption and lactate concentration in cycling exercise. Sport Sciences for Health, 15(2), 295–310. https://doi.org/10.1007/s11332-019-00557-x (Review)

57. Boccia G.; Dardanello D.; Tarperi C.; Festa L.; La Torre A.; Pellegrini B.; Schena F.; Rainoldi A. (2018). Women show similar central and peripheral fatigue to men after half-marathon*. European Journal of Sport Science, 18(5), 695–704. https://doi.org/10.1080/17461391.2018.1442500

58. Stöggl T.; Welde B.; Supej M.; Zoppirolli C.; Rolland C.G.; Holmberg H.-C.; Pellegrini B. (2018). Impact of incline, sex and level of performance on kinematics during a distance race in classical cross-country skiing. Journal of Sports Science and Medicine, 17(1), 124–133.

59. Boccia G.; Zoppirolli C.; Bortolan L.; Schena F.; Pellegrini B. (2018). Shared and task-specific muscle synergies of Nordic walking and conventional walking. Scandinavian Journal of Medicine and Science in Sports, 28(3), 905–918. https://doi.org/10.1111/sms.12992

60. Boccia G.; Dardanello D.; Brustio P.R.; Tarperi C.; Festa L.; Zoppirolli C.; Pellegrini B.; Schena F.; Rainoldi A. (2018). Neuromuscular fatigue does not impair the rate of force development in ballistic contractions of submaximal amplitudes. Frontiers in Physiology, 9(OCT), 1503. https://doi.org/10.3389/fphys.2018.01503

61. Pellegrini B.; Boccia G.; Zoppirolli C.; Rosa R.; Stella F.; Bortolan L.; Rainoldi A.; Schena F. (2018). Muscular and metabolic responses to different nordic walking techniques, when style matters. PLoS ONE, 13(4), e0195438. https://doi.org/10.1371/journal.pone.0195438

62. Gilli F.; Skafidas S.; Zoppirolli C.; Pellegrini B.; Nollo G.; Mantovani W.; Torri E.; Migazzi M.; Schena F. (2018). Semi-structured physical activity intervention in daily life: a good compromise between effectiveness and feasibility. Sport Sciences for Health, 14(3), 663–671. https://doi.org/10.1007/s11332-018-0487-5

63. Pellegrini B.; Stöggl T.L.; Holmberg H.-C. (2018). Developments in the biomechanics and equipment of Olympic cross-country skiers. Frontiers in Physiology, 9(JUL), 976. https://doi.org/10.3389/fphys.2018.00976

64. Fornasiero A.; Savoldelli A.; Boccia G.; Zignoli A.; Bortolan L.; Schena F.; Pellegrini B. (2018). Physiological factors associated with ski-mountaineering vertical race performance. Sport Sciences for Health, 14(1), 97–104. https://doi.org/10.1007/s11332-017-0407-0

65. Stöggl T.; Pellegrini B.; Holmberg H.-C. (2018). Pacing and predictors of performance during cross-country skiing races: A systematic review. Journal of Sport and Health Science, 7(4), 381–393. https://doi.org/10.1016/j.jshs.2018.09.005

66. Fornasiero A.; Savoldelli A.; Fruet D.; Boccia G.; Pellegrini B.; Schena F. (2018). Physiological intensity profile, exercise load and performance predictors of a 65-km mountain ultra-marathon. Journal of Sports Sciences, 36(11), 1287–1295. https://doi.org/10.1080/02640414.2017.1374707

67. Zoppirolli C.; Bortolan L.; Stella F.; Boccia G.; Holmberg H.-C.; Schena F.; Pellegrini B. (2018). Following a long-distance classical race the whole-body kinematics of double poling by elite cross-country skiers are altered. Frontiers in Physiology, 9(JUL), 978. https://doi.org/10.3389/fphys.2018.00978

68. Fornasiero A.; Savoldelli A.; Skafidas S.; Stella F.; Bortolan L.; Boccia G.; Zignoli A.; Schena F.; Mourot L.; Pellegrini B. (2018). Delayed parasympathetic reactivation and sympathetic withdrawal following maximal cardiopulmonary exercise testing (CPET) in hypoxia. European Journal of Applied Physiology, 118(10), 2189–2201. https://doi.org/10.1007/s00421-018-3945-5

69. Pellegrini B.; Zoppirolli C.; Boccia G.; Bortolan L.; Schena F. (2018). Cross-country skiing movement factorization to explore relationships between skiing economy and athletes' skills. Scandinavian Journal of Medicine and Science in Sports, 28(2), 565–574. https://doi.org/10.1111/sms.12938

70. Fornasiero A.; Savoldelli A.; Modena R.; Boccia G.; Pellegrini B.; Schena F. (2018). Physiological and anthropometric characteristics of top-level youth cross-country cyclists. Journal of Sports Sciences, 36(8), 901–906. https://doi.org/10.1080/02640414.2017.1346271

71. Boccia G.; Dardanello D.; Tarperi C.; Rosso V.; Festa L.; La Torre A.; Pellegrini B.; Schena F.; Rainoldi A. (2017). Decrease of muscle fiber conduction velocity correlates with strength loss after an endurance run. Physiological Measurement, 38(2), 233–240. https://doi.org/10.1088/1361-6579/aa5139

72. Zoppirolli C.; Pellegrini B.; Modena R.; Savoldelli A.; Bortolan L.; Schena F. (2017). Changes in upper and lower body muscle involvement at increasing double poling velocities: an ecological study. Scandinavian Journal of Medicine and Science in Sports, 27(11), 1292–1299. https://doi.org/10.1111/sms.12783

73. Boccia G.; Fornasiero A.; Savoldelli A.; Bortolan L.; Rainoldi A.; Schena F.; Pellegrini B. (2017). Oxygen consumption and muscle fatigue induced by whole-body electromyostimulation compared to equal-duration body weight circuit training. Sport Sciences for Health, 13(1), 121–130. https://doi.org/10.1007/s11332-016-0335-4

74. Welde B.; Stöggl T.L.; Mathisen G.E.; Supej M.; Zoppirolli C.; Winther A.K.; Pellegrini B.; Holmberg H.-C. (2017). The pacing strategy and technique of male cross-country skiers with different levels of performance during a 15-km classical race. PLoS ONE, 12(11), e0187111. https://doi.org/10.1371/journal.pone.0187111

75. Pellegrini B.; Peyré-Tartaruga L.A.; Zoppirolli C.; Bortolan L.; Savoldelli A.; Minetti A.E.; Schena F. (2017). Mechanical energy patterns in nordic walking: comparisons with conventional walking. Gait and Posture, 51, 234–238. https://doi.org/10.1016/j.gaitpost.2016.10.010

76. Savoldelli A.; Fornasiero A.; Trabucchi P.; Limonta E.; Torre A.L.; Degache F.; Pellegrini B.; Millet G.P.; Vernillo G.; Schena F. (2017). The energetics during the world's most challenging mountain Ultra-Marathon-A case study at the Tor des Geants®. Frontiers in Physiology, 8(DEC), 1003. https://doi.org/10.3389/fphys.2017.01003

77. Zoppirolli C.; Boccia G.; Bortolan L.; Schena F.; Pellegrini B. (2017). Functional significance of extent and timing of muscle activation during double poling on-snow with increasing speed. European Journal of Applied Physiology, 117(11), 2149–2157. https://doi.org/10.1007/s00421-017-3703-0

78. Bombieri F.; Schena F.; Pellegrini B.; Barone P.; Tinazzi M.; Erro R. (2017). Walking on four limbs: A systematic review of Nordic Walking in Parkinson disease. Parkinsonism and Related Disorders, 38, 8–12. https://doi.org/10.1016/j.parkreldis.2017.02.004 (Review)

79. Zignoli A.; Biral F.; Pellegrini B.; Jinha A.; Herzog W.; Schena F. (2017). An optimal control solution to the predictive dynamics of cycling. Sport Sciences for Health, 13(2), 381–393. https://doi.org/10.1007/s11332-017-0370-9

80. Nardello F.; Bombieri F.; Tinazzi M.; Schena F.; Pellegrini B. (2017). Metabolic and kinematic parameters during walking with poles in Parkinson's disease. Journal of Neurology, 264(8), 1785–1790. https://doi.org/10.1007/s00415-017-8568-y

81. Boccia G.; Dardanello D.; Tarperi C.; Festa L.; La Torre A.; Pellegrini B.; Schena F.; Rainoldi A. (2017). Fatigue-induced dissociation between rate of force development and maximal force across repeated rapid contractions. Human Movement Science, 54, 267–275. https://doi.org/10.1016/j.humov.2017.05.016

82. Boccia G.; Dardanello D.; Zoppirolli C.; Bortolan L.; Cescon C.; Schneebeli A.; Vernillo G.; Schena F.; Rainoldi A.; Pellegrini B. (2017). Central and peripheral fatigue in knee and elbow extensor muscles after a long-distance cross-country ski race. Scandinavian Journal of Medicine and Science in Sports, 27(9), 945–955. https://doi.org/10.1111/sms.12718

83. Vernillo G.; Savoldelli A.; Skafidas S.; Zignoli A.; La Torre A.; Pellegrini B.; Giardini G.; Trabucchi P.; Millet G.P.; Schena F. (2016). An extreme mountain ultra-marathon decreases the cost of uphill walking and running. Frontiers in Physiology, 7(NOV), 530. https://doi.org/10.3389/fphys.2016.00530

84. Zoppirolli C.; Pellegrini B.; Bortolan L.; Schena F. (2016). Effects of short-term fatigue on biomechanical and physiological aspects of double poling in high-level cross-country skiers. Human Movement Science, 47, 88–97. https://doi.org/10.1016/j.humov.2016.02.003

85. Pellegrini B.; Peyré-Tartaruga L.A.; Zoppirolli C.; Bortolan L.; Bacchi E.; Figard-Fabre H.; Schena F. (2015). Exploring muscle activation during nordic walking: A comparison between conventional and uphill walking. PLoS ONE, 10(9), e0138906. https://doi.org/10.1371/journal.pone.0138906

86. Vernillo G.; Savoldelli A.; Pellegrini B.; Schena F. (2015). Validity of the SenseWear armband to assess energy expenditure in graded walking. Journal of Physical Activity and Health, 12(2), 178–183. https://doi.org/10.1123/jpah.2013-0437

87. Zoppirolli C.; Pellegrini B.; Bortolan L.; Schena F. (2015). Energetics and biomechanics of double poling in regional and high-level cross-country skiers. European Journal of Applied Physiology, 115(5), 969–979. https://doi.org/10.1007/s00421-014-3078-4

88. Vernillo G.; Savoldelli A.; Zignoli A.; Skafidas S.; Fornasiero A.; Torre A.L.; Bortolan L.; Pellegrini B.; Schena F. (2015). Energy cost and kinematics of level, uphill and downhill running: Fatigue-induced changes after a mountain ultramarathon. Journal of Sports Sciences, 33(19), 1998–2005. https://doi.org/10.1080/02640414.2015.1022870

89. Colonna M.; Moncalero M.; Nicotra M.; Pezzoli A.; Fabbri E.; Bortolan L.; Pellegrini B.; Schena F. (2014). Thermal behaviour of ski-boot liners: Effect of materials on thermal comfort in real and simulated skiing conditions. Procedia Engineering, 72, 386–391. https://doi.org/10.1016/j.proeng.2014.06.066 (Conference paper)

90. Vernillo G.; Savoldelli A.; Pellegrini B.; Schena F. (2014). Evaluation of the sense wear mini armband to assess energy expenditure during pole walking. International Journal of Sport Nutrition and Exercise Metabolism, 24(5), 565–569. https://doi.org/10.1123/ijsnem.2014-0075

91. Schena F.; Pellegrini B.; Tarperi C.; Calabria E.; Salvagno G.L.; Capelli C. (2014). Running economy during a simulated 60-km trial. International Journal of Sports Physiology and Performance, 9(4), 604–609. https://doi.org/10.1123/IJSPP.2013-0302

92. Andersson E.; Stöggl T.; Pellegrini B.; Sandbakk Ø.; Ettema G.; Holmberg H.-C. (2014). Biomechanical analysis of the herringbone technique as employed by elite cross-country skiers. Scandinavian Journal of Medicine and Science in Sports, 24(3), 542–552. https://doi.org/10.1111/sms.12026

93. Pellegrini B.; Zoppirolli C.; Bortolan L.; Zamparo P.; Schena F. (2014). Gait models and mechanical energy in three cross-country skiing Techniques. Journal of Experimental Biology, 217(21), 3910–3918. https://doi.org/10.1242/jeb.106740

94. Vernillo G.; Savoldelli A.; Zignoli A.; Trabucchi P.; Pellegrini B.; Millet G.P.; Schena F. (2014). Influence of the world's most challenging mountain ultra-marathon on energy cost and running mechanics. European Journal of Applied Physiology, 114(5), 929–939. https://doi.org/10.1007/s00421-014-2824-y

95. Andersson E.; Pellegrini B.; Sandbakk Ø.; Stüggl T.; Holmberg H.-C. (2014). The effects of skiing velocity on mechanical aspects of diagonal cross-country skiing. Sports Biomechanics, 13(3), 267–284. https://doi.org/10.1080/14763141.2014.921236

96. Brighenti A.; Bortolan L.; Savoldelli A.; Modena R.; Pellegrini B.; Schena F. (2013). Effect of new type of compression garments on sub-maximal and maximal cycling performance in the heat (32 °C). Sport Sciences for Health, 9(3), 127–131. https://doi.org/10.1007/s11332-013-0158-5

97. Bernardi M.; Janssen T.; Bortolan L.; Pellegrini B.; Fischer G.; Schena F. (2013). Kinematics of cross-country sit skiing during a Paralympic race. Journal of Electromyography and Kinesiology, 23(1), 94–101. https://doi.org/10.1016/j.jelekin.2012.07.004

98. Impellizzeri F.M.; Bizzini M.; Dvorak J.; Pellegrini B.; Schena F.; Junge A. (2013). Physiological and performance responses to the FIFA 11+ (part 2): A randomised controlled trial on the training effects. Journal of Sports Sciences, 31(13), 1491–1502. https://doi.org/10.1080/02640414.2013.802926

99. Pellegrini B.; Zoppirolli C.; Bortolan L.; Holmberg H.-C.; Zamparo P.; Schena F. (2013). Biomechanical and energetic determinants of technique selection in classical cross-country skiing. Human Movement Science, 32(6), 1415–1429. https://doi.org/10.1016/j.humov.2013.07.010

100. Zoppirolli C.; Holmberg H.-C.; Pellegrini B.; Quaglia D.; Bortolan L.; Schena F. (2013). The effectiveness of stretch-shortening cycling in upper-limb extensor muscles during elite cross-country skiing with the double-poling technique. Journal of Electromyography and Kinesiology, 23(6), 1512–1519. https://doi.org/10.1016/j.jelekin.2013.08.013

101. Fabre N.; Mourot L.; Zerbini L.; Pellegrini B.; Bortolan L.; Schena F. (2013). A novel approach for lactate threshold assessment based on rating of perceived exertion. International Journal of Sports Physiology and Performance, 8(3), 263–270. https://doi.org/10.1123/ijspp.8.3.263

102. Zerbini L.; Brighenti A.; Pellegrini B.; Bortolan L.; Antonetti T.; Schena F. (2012). Effects of acute hypoxia on the oxygen uptake kinetics of older adults during cycling exercise. Applied Physiology, Nutrition and Metabolism, 37(4), 744–752. https://doi.org/10.1139/H2012-048

103. Fabre N.; Bortolan L.; Pellegrini B.; Zerbini L.; Mourot L.; Schena F. (2012). Anaerobic threshold assessment through the ventilatory method during roller-ski skating testing: Right or wrong?. Journal of Strength and Conditioning Research, 26(2), 381–387. https://doi.org/10.1519/JSC.0b013e3182260455

104. Pellegrini B.; Bortolan L.; Schena F. (2011). Poling force analysis in diagonal stride at different grades in cross country skiers. Scandinavian Journal of Medicine and Science in Sports, 21(4), 589–597. https://doi.org/10.1111/j.1600-0838.2009.01071.x

105. Fabre N.; Balestreri F.; Pellegrini B.; Schena F. (2010). The modified DMax method is reliable to predict the second ventilatory threshold in elite cross-country skiers. Journal of Strength and Conditioning Research, 24(6), 1546–1552. https://doi.org/10.1519/JSC.0b013e3181dc450a

106. Zory R.; Vuillerme N.; Pellegrini B.; Schena F.; Rouard A. (2009). Effect of fatigue on double pole kinematics in sprint cross-country skiing. Human Movement Science, 28(1), 85–98. https://doi.org/10.1016/j.humov.2008.05.002

107. Bortolan L.; Pellegrini B.; Finizia G.; Schena F. (2008). Assessment of the reliability of a custom built nordic ski ergometer for cross-country skiing power test. Journal of Sports Medicine and Physical Fitness, 48(2), 177–182.

108. Pellegrini B.; Schena F. (2005). Characterization of arm-gun movement during air pistol aiming phase. Journal of Sports Medicine and Physical Fitness, 45(4), 467–475.

109. Pellegrini B.; Faes L.; Nollo G.; Schena F. (2004). Quantifying the contribution of arm postural tremor to the outcome of goal-directed pointing task by displacement measures. Journal of Neuroscience Methods, 139(2), 185–193. https://doi.org/10.1016/j.jneumeth.2004.04.025

110. Cavina-Pratesi C.; Bricolo E.; Pellegrini B.; Marzi C.A. (2004). At what stage of manual visual reaction time does interhemispheric transmission occur: Controlled or ballistic?. Experimental Brain Research, 155(2), 220–230. https://doi.org/10.1007/s00221-003-1712-1

111. Pratesi C.C.; Emmanuela B.; Pellegrini B.; Marzi C.A. (2003). Interhemispheric transfer as assessed with the Poffenberger paradigm: What kind of signal is transferred?. Journal of Vision, 3(9). https://doi.org/10.1167/3.9.747

112. Nollo G.; Faes L.; Porta A.; Pellegrini B.; Ravelli F.; Del Greco M.; Disertori M.; Antolini R. (2002). Evidence of unbalanced regulatory mechanism of heart rate and systolic pressure after acute myocardial infarction. American Journal of Physiology - Heart and Circulatory Physiology, 283(3 52-3), H1200–H1207. https://doi.org/10.1152/ajpheart.00882.2001

113. Nollo G.; Faes L.; Pellegrini B.; Porta A.; Antolini R. (2000). Synchronization index for quantifying nonlinear causal coupling between RR interval and systolic arterial pressure after myocardial infarction. Computers in Cardiology. (Conference paper)

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