

Programme Master Symposium Human Movement Sciences & Sport Sciences

Wednesday 17 June 2026

TIME	Welcome by prof. dr. Koen Lemmink (Head of department of Human Movement Sciences)- Keuningzaal Opening Master Symposium by chairman of the day: dr. Helco van Keeken					
10.00 start round 1 parallel sessions 1-6						
	Session 1 - Boeringzaal	Session 2 - Keuningzaal	Session 3 - 3214.0081	Session 4 - 3219.0061	Session 5 - 3215.0165	Session 6 - 3227.0030
	Chair: Dr. Carlo Ferri Marini	Chair: Prof. dr. Koen Lemmink	Chair: Dr. Harjo de Poel	Chair: Dr. Helco van Keeken	Chair: Dr. Esther Hartman	Chair: Dr. Christian Greve
10.00	<p>Nils van Tuinen <i>Bachelor Honours traject</i> Examining the sensitivity of neuromuscular readiness indicators to changes in resistance training performance supervisor: Carlo Ferri Marini</p>	<p>Femke ten Pas Monitoring workload and neuromuscular performance to predict soft-tissue injuries in elite football players. supervisor: Koen Lemmink</p>	<p>Maureen van Leusen Cortical responses during reactive balance control across the adult lifespan: a perturbation-evoked potential study. supervisor: Marieke van Heuvelen</p>	<p>Friso van der Bijl Differentiating perceived recovery responses to training and mental load in youth elite speed skaters. supervisor: Ruby Otter-Drost</p>	<p>Linde Lankheet The mediating role of self-efficacy in the association between autonomous motivation and physical activity in primary school children. supervisor: Esther Hartman</p>	<p>Frédérique Potma Sedentary behaviour and physical activity patterns in people with parkinson's disease: an accelerometer- based study. supervisor: Nienke de Vries</p>
10.20	<p>Eoghan McCarthy Spatiotemporal and kinetic breakpoints during incremental running: proximity to ventilatory thresholds and sensitivity to protocol design. supervisor: Carlo Ferri Marini</p>	<p>Guido van Campen Brain ready, knee ready: an intervention mapping-guided development and formative evaluation of an ACL injury prevention warm-up for elite girls' and women's football. supervisor: Anne Benjaminse</p>	<p>Puck Berendschot A musculoskeletal model of the cross-country skiing movement: A methodological pilot study. supervisor: Harjo de Poel</p>	<p>Maureen Poelstra Interobserver variability of ventilatory thresholds in cardiopulmonary exercise testing: comparing students with experts. supervisor: Ruby Otter-Drost</p>	<p>Robin Vink Actual and perceived motor competence profiles and their association with physical activity during physical education in 8-12 year olds. supervisor: Esther Hartman</p>	<p>Jolanda Rozema Robustness of the conventional gait model 2.4 to marker misplacement. supervisor: Christian Greve</p>
10.40	<p>Mats Bartram Investigating heart rate variability during running: effects of signal processing and agreement with ventilatory thresholds. supervisor: Carlo Ferri Marini</p>	<p>Marlies de Jong Brain ready, knee ready: development of a motor learning-informed ACL injury prevention programme in elite female football. supervisor: Anne Benjaminse</p>	<p>Maike van Uhm Development and evaluation of a digital tool for personalized exercise advice in older adults with dementia. supervisor: Marieke van Heuvelen</p>	<p>Felix Imbery Exploring the association between training load and self-reported race-readiness and selfefficacy in professional cyclists. supervisor: Ruby Otter-Drost</p>	<p>Sten Bruins Associations between attitude toward physical activity, autonomous motivation, and multiple components of physical fitness in children. supervisor: Esther Hartman</p>	<p>Judith van Beekum Promoting patient mobilisation in hospital care: a mixed-methods study on the implementation of the Physical Activity Toolbox in an abdominal surgery ward. supervisor: Nienke de Vries</p>

11.00-11.30 Coffee & Tea break - Hall 3219

11.30 start round 2 parallel sessions 7-12						
	Session 7 - Boeringzaal	Session 8 - Keuningzaal	Session 9 - 3214.0081	Session 10 - 3219.0061	Session 11 - 3215.0165	Session 12 - 3227.0030
	Chair: Dr. Nienke de Vries	Chair: Dr. Riemer Vegter	Chair: Dr. Carlo Ferri Marini	Chair: Dr. Raoul Bongers	Chair: Dr. Marije Elferink	Chair: Prof. dr. Han Houdijk
11.30	Ida Stevers <i>Patients on the move: an implementation study for enhancing movement behavior in hospitalized patients.</i> supervisor: Nienke de Vries	Jelle Hofstee <i>Recovery and readiness in elite football: The role of preceding load and physical output.</i> supervisor: Michel Brink	Jara Vriese <i>Internal and external load demands in elite youth handball. Comparison of full training sessions and game-based training formats with match play.</i> supervisor: Carlo Ferri Marini	Ariane Mol <i>Usability, feasibility and construct validity of a new developed arm-leg ergometer in patients with lower-extremity functional loss.</i> supervisor: Cassandra Kraaijenbrink	Jorik van den Broek <i>The perfect push? Developing a data-driven exchange score to quantify relay efficiency in elite short-track speed skatin.</i> supervisor: Harjo de Poel	Maarten van den Braber <i>The effects of gait economy and aerobic capacity on preferred walking speed in healthy young adults.</i> supervisor: Han Houdijk
11.50	Lisa Algra <i>The role of treatment expectancy and lifestyle factors in symptom reduction in people with acquired brain injury (ABI) prior to neuroplasticity-based treatment: an explorative study.</i> supervisor: Nienke de Vries	Eline van den Bosch <i>Exploring the feasibility of wheelchair ergometer training with feedback and interval elements in individuals with spinal cord injury during rehabilitation: a case series.</i> supervisor: Riemer Vegter	Thomas Smits <i>Comparing methods of assessing physical readiness for predicting resistance exercise performance.</i> Supervisor: Carlo Ferri Marini	Femke Backx <i>Sitting behaviour follows the norm: how behavioural settings can invite dynamic sitting.</i> supervisor: Simone Caljouw	Silke van der Wal <i>Psychosocial experiences preceding ACL injury in young female amateur football players: a qualitative study.</i> supervisor: Anne Benjaminse	Maarten te Vaarwerk <i>Perceptual-cognitive skill in youth volleyball: relating coach assessment to objective measures.</i> supervisor: Frank Zaal
12.10	Hinke van der Veen <i>Construct validation of the Dutch version of the TAS Test in healthy adults.</i> supervisor: Nienke de Vries	Reinder Prince <i>Quantification of defensive success in elite female handball. Development and validation of an expected goals against model.</i> supervisor: Michel Brink	Amber Walbeck <i>Internal load variation across a competitive season in professional ice hockey contextual and positional influences across training and competition.</i> supervisor: Carlo Ferri Marini	Thomas van Tubbergh <i>Exploring force: The effect of practice structure on early myoelectric prosthesis force-control learning with vibrotactile feedback.</i> supervisor: Raoul Bongers	Eva Kral <i>Crew coordination dynamics in an elite women's eight: An exploratory PCA analysis of gate angle and gate force during on-water racing.</i> supervisor: Harjo de Poel	Mette Oonk <i>More than a first step: Changes in functional mobility after transfemoral amputation and the role of hip function during early rehabilitation.</i> supervisor: Han Houdijk
12.30		Samantha van Asselt <i>Is there a relationship between run specific isometric exercises and field performance?</i> supervisor: Matthias Kempe		Pim Beute <i>Left-right asymmetries in force output amplitude and timing during handcycling at different exercise intensities: an explorative pilot study.</i> supervisor: Cassandra Kraaijenbrink	Babet Bekhuis <i>Age at menarche and sport performance development in junior female athletes.</i> supervisor: Marije Elferink-Gemser	

12.50-14.20 Lunch & poster presentations- Hall 3219/Hall paintings

14.20 start round 3 parallel sessions 13-18						
	Session 13 - Boeringzaal	Session 14 - Keuningzaal	Session 15 - 3214.0081	Session 16 - 2319.0061	Session 17 - 3215.0165	Session 18 - 3227.0030
	Chair: Dr. Rob den Otter	Chair: Dr. Menno Veldman	Chair: Dr. Tim Valk	Chair: Dr. Tom Buurke	Chair: Dr. Michel Brink	Chair: Dr. Joanne Smith
14.20	Jonne Luiten <i>Wheelchair configuration affects performance: The effects of seating position on mobility performance and stroke quality in national level wheelchair tennis players.</i> supervisor: Riemer Vegter	Dominique Zwaagstra Bachelor honours traject <i>Effects of STN-DBS on Gait in Parkinson's Disease: a patient-specific analysis</i> supervisor: Menno Veldman	Indra van der Duim <i>Assessing limited ankle range of motion using rating scales and daily activity performance. Illustrating current issues using burn patient ROM data.</i> supervisor: Tim Valk	Eva van der Putten <i>Objective classification of spastic and dystonic motor phenotypes in children with cerebral palsy using surface EMG.</i> supervisor: Tom Buurke	Bart Schuurman <i>Most demanding passages in elite youth football: comparing training sessions with match demands across age groups and playing positions.</i> supervisor: Michel Brink	Annerens Hoogerkamp <i>Motor learning in a muscle-machine interface: effects of control dimensionality.</i> supervisor: Raoul Bongers
14.40	Danique de Joode <i>Beyond clinical scales Clinical measures of hamstring spasticity and their association with knee kinematics during gait.</i> supervisor: Rob den Otter	Lea Malingré <i>Before the cue: is pre-cue neural activity associated with responsiveness to somatosensory targeted memory reactivation?</i> supervisor: Menno Veldman	Isabel Gilde <i>Scapular muscle activation during dynamic arm elevation across three movement planes using high-density surface EMG.</i> supervisor: Alessio Murgia	Peter Murphy <i>Navigating the pack: positioning and breakaways in mass start speed skating.</i> supervisor: Marije Elferink-Gemser	Daan Smink <i>Physical output across two consecutive small-sided games in elite youth football: the influence of bout duration and recovery duration.</i> supervisor: Michel Brink	Illy Heimeriks <i>Physical activity barriers, facilitators and preferences of young children in their social environment: a qualitative study.</i> supervisor: Joanne Smith
15.00	Diedeke Okkinga <i>Exoskeleton-assisted gait training in incomplete spinal cord injury: cardiorespiratory demand and effects on maximal exercise capacity.</i> supervisor: Rob den Otter	Anniek Bos <i>Neuromuscular control and gait adaptation during optic flow perturbations in active and inactive older adults.</i> supervisor: Menno Veldman	Ivan Draijer <i>Acute: chronic workload ratio in elite female soccer players: load patterns during return-to-sport.</i> supervisor: Hans Zwerver	Bram Schols <i>Beyond isolated beliefs: coaching philosophy is multi-layered in Dutch youth swimming.</i> supervisor: Marije Elferink-Gemser	Nils van der Vegt <i>Critical fluctuations as early indicator of adversarial growth in elite youth. Football players: a proof of concept.</i> supervisor: Michel Brink	Emma Wolters <i>Understanding barriers, facilitators and preferences for physical activity behaviour in the physical environment among preschoolers: a qualitative ecological perspective.</i> supervisor: Joanne Smith
15.30	Welcome back - Keuningzaal					
	Ceremony best oral presentation- and best poster award					
15.45	Closing symposium					