

# Programme Master Symposium Human Movement Sciences & Sport Science

## Wednesday 22 June 2022

TIME

9.00 **Welcome by prof. dr. Koen Lemmink (Head of department of Human Movement Sciences)- Keuningzaal**  
**Opening Master Symposium by chairmen of the day: prof. dr. Han Houdijk and dr. Helco van Keeken**

### 9.30 start round 1 parallel sessions 1-4

	Session 1 - Boeringzaal	Session 2 - Keuningzaal	Session 3 - 3214.0081	Session 4 - 3219.0061	
	<b>Chair: Noor Mouton</b>	<b>Chair: Raoul Bongers</b>	<b>Chair: Simone Caljouw</b>	<b>Chair: Erja Portegijs</b>	
9.30	Laurisa Arenales Arauz Short-term effects of side-alternating Whole-Body vibration on cognitive function of young adults supervisor: Marieke van Heuvelen	Jesper Mulder The Dynamic Balance test for Speed Skating – A Psychometric Evaluation supervisor: <a href="#">Marije Elferink-Gemser</a>	Suze Gort Train, Sleep, Recover, Repeat: A video-based sleep hygiene intervention to improve sleep hygiene, quality, and quantity of short track speed skaters in order to boost recovery. supervisor: <a href="#">Matthias Kempe</a>	Hilde van Kouswijk HEROES study Exercise during Rehabilitation Of limb salvage surgery for lower Extremity musculoSkeletal tumour A qualitative study into factors influencing physical functioning and implementation of exercise supervisor: <a href="#">Erja Portegijs</a>	NO SESSION
9.50	Kiki Bergsma The effect of rider movements on the biomechanics of horses during show jumping: an exploratory study supervisor: Harjo de Poel	Verena Schuurmans Changes in muscle coordination when learning a myoelectric control scheme supervisor: <a href="#">Raoul Bongers</a>	Liese de Bruin Movement patterns of the lower extremities and lower back during lifting: Identifying adaptations due to lifting progressive loads supervisor: <a href="#">Claudine Lamoth</a>	Esther de Coo Workload, recovery, well-being and performance during different competitive periods in elite volleyball players supervisor: <a href="#">Koen Lemmink</a>	NO SESSION
10.10	<a href="#">Koen Gerrits</a> Physical activity, sedentary behaviour and screen time of paediatric burn patients; from before burn injury to six months after discharge supervisor: <a href="#">Noor Mouton</a>	<a href="#">Roos Duijn</a> Elbow joint loads during eight simulated activities of daily living: implications for formulating recommendations after total elbow arthroplasty supervisor: <a href="#">Alessio Murgia</a>	<a href="#">Teun Stegeman</a> Soccer is a game of inches: A study to the effects of successful off-ball deep run behavior on defensive formations supervisor: <a href="#">Matthias Kempe</a>	<a href="#">Jurian Dolstra</a> The effects of the difficulty of practicing a unimanual visuomotor skill on interlimb transfer of this skill and the related brain activation in healthy young adults: an EEG study supervisor: <a href="#">Tibor Hortobagyi</a>	NO SESSION

10.30-11.00 Coffee & Tea break - Hall 3219

### 11.00 start round 2 parallel sessions 5-9

	Session 5 - Boeringzaal	Session 6 - Keuningzaal	Session 7 - 3214.0081	Session 8 - 3219.0061	Session 9 - Faberzaal
	<b>Chair: Han Houdijk</b>	<b>Chair: Riemer Vegter</b>	<b>Chair: Esther Hartman</b>	<b>Chair: Matthias Kempe</b>	<b>Chair: Marije Elferink-Gemser</b>
11.00	<a href="#">Emma Barnert</a> Empowerment in people living with dementia supervisor: <a href="#">Marieke van Heuvelen</a>	<a href="#">Lars Gerrits</a> Predicting performance in elite youth soccer players based on physical and psychological factors supervisor: <a href="#">Michel Brink</a>	<a href="#">Elske Oord</a> Associations between intrinsic motivation and moderate-to-vigorous physical activity in adolescents during individual and team lessons in physical education supervisor: <a href="#">Esther Hartman</a>	<a href="#">Sander Jansen</a> Predicting Readiness to Perform using Internal Load, External Load, and Wellness in elite youth Handball Athletes: a Machine Learning Approach supervisor: <a href="#">Matthias Kempe</a>	<a href="#">Maxwell Otto</a> The changes in rowing performance after reducing steering movements in sweep rowing: A case study supervisor: <a href="#">Harjo de Poel</a>
11.20	<a href="#">Sara Helgason</a> The Effect of Virtual Reality Gait Training in Stroke Patients and its Transfer to Overground Walking: A Case Series Study supervisor: <a href="#">Rob den Otter</a>	<a href="#">Pleuni Kirch</a> Innovative Upper-Body Actuated Steering in Manual Wheelchairs Reduces Physical Demands of the Upper Extremities During an Adapted Illinois Agility Test with Able-Bodied Participants supervisor: <a href="#">Riemer Vegter</a>	<a href="#">Christa Bluemink</a> Rating Scales for Range of Motion Impairment of the Knee Joint: the Road to a Functional Point of View supervisor: <a href="#">Noor Mouton</a>	<a href="#">Loë Kostermans</a> Exploring Upper Limb Joint Coordination during Rehabilitation in Individuals with Stroke supervisor: <a href="#">Raoul Bongers</a>	<a href="#">Bas Nijenhuis</a> The development of physical fitness components in talented tennis players: A multilevel analysis supervisor: <a href="#">Marije Elferink-Gemser</a>
11.40	<a href="#">Yleen ten Wolde</a> Do roll-over shoes manipulate human movement or does human movement manipulate roll-over shapes? Influence of apex position and longitudinal bending stiffness adaptations on foot-shoe and ankle-foot roll-over shapes supervisor: <a href="#">Han Houdijk</a>	<a href="#">Martijn Pot</a> Monitoring biomechanical load on the lower extremities during the Return to Sport process of team sport players supervisor: <a href="#">Michel Brink</a>	<a href="#">Annemarie van der Vegt</a> The Association of Physical Fitness and Child Characteristics with Physical Activity during Physically Active Learning in Special Needs Education supervisor: <a href="#">Esther Hartman</a>	<a href="#">Amilia Aarnink</a> Pacing behavior on the 1000 meter in elite speed skating supervisor: <a href="#">Matthias Kempe</a>	<a href="#">Laura van Overbeeke</a> Reliability and validity of a newly developed qualitative observation tool for the balance items of the MABC-2 for 3- to 5-year-old children supervisor: <a href="#">Marina Schoemaker</a>

12.00-13.15 Lunch & poster presentations- Hall 3219/Hall paintings

**13.30 start round 3 parallel sessions 10-13**

	Session 10 - Boeringzaal	Session 11 - Keuningzaal	Session 12 - 3214.0081	Session 13 - 2319.0061	
	<b>Chair: Matthias Kempe</b>	<b>Chair: Rob den Otter</b>	<b>Chair: Frank Zaal</b>	<b>Chair: Marina Schoemaker</b>	
13.30	<p><b>Anna Bakker</b> On-ice performance testing in speed skating: a pilot study supervisor: <b>Matthias Kempe</b></p>	<p><b>Eline Zaal</b> The effects of attentional loading on the responses to unexpected slips. Supervisor: <b>Rob den Otter</b></p>	<p><b>Nithin Manoj</b> Wearable Gait assessment system to determine Roll-over shape characteristics supervisor: <b>Han Houdijk</b></p>	<p><b>Liset van der Hulst</b> Effects of mediolateral optic flow perturbations on dynamic balance during walking supervisor: <b>Claudine Lamoth</b></p>	NO SESSION
13.50	<p><b>Eline Zuidema</b> The power to heart rate relationship in road cyclists: a retrospective analysis of training data supervisor: <b>Matthias Kempe</b></p>	<p><b>Femke Siebenga</b> The effect of preoperative and postoperative cardiac rehabilitation on depression and anxiety in patients undergoing elective cardiac surgery: a randomized controlled trial supervisor: <b>Erja Portegijs</b></p>	<p><b>Jorn Flach</b> Walking kinematics as a source of information for estimating maximum jumping distance: Can observers estimate maximum jumping distance of non-fatigued and fatigued actors more accurately after seeing actors walk? supervisor: <b>Frank Zaal</b></p>	<p><b>Esther Kiel</b> EMG features to distinguish severe and non-severe dystonia patients from healthy controls supervisor: <b>Claudine Lamoth</b></p>	NO SESSION
14.10	<p><b>Pim Weijtens</b> Quantifying lower extremity biomechanical load and kinematics in football players using an inertial sensor setup: assessment of discriminative validity supervisor: <b>Michel Brink</b></p>	<p><b>Mirthe de Vries</b> The Feasibility and Efficacy of Virtual Reality therapy during and after ICU-admission supervisor: <b>Rob den Otter</b></p>	<p><b>Thijs Tankink</b> The Effect of Human-in-the-Loop Optimized Shoe Profiles on the Biomechanics and Metabolic Cost of Running supervisor: <b>Han Houdijk</b></p>	<p><b>Babs Roelofs</b> The longitudinal development of fine motor skills in 3- to 5-year old children supervisor: <b>Marina Schoemaker</b></p>	NO SESSION
14.30	<p><b>Anneke Ellens</b> Changes in physical and psychological factors during return to competition of a lower limb injury in youth elite soccer players supervisor: <b>Michel Brink</b></p>	<p><b>Anne-Ruth Scheffer</b> The relationship between fundamental motor skills and physical activity during physically active learning of 6-9 year old children in special needs education supervisor: <b>Joanne Smith</b></p>	<p><b>Maran Nijmeijer</b> Consistency of nonverbal behavior of elite male soccer players in game situations supervisor: <b>Frank Zaal</b></p>	<p><b>Evangelia Chatziantoniou</b> Trunk Muscles Co-contraction is Related to Pain Susceptibility in Asymptomatic Participants at the Different Weight Lifting Intensities supervisor: <b>Claudine Lamoth</b></p>	NO SESSION

14.50-15.15 Coffee & Tea break - Hall 3219

15.15-15.30	<p><b>Welcome back - Keuningzaal</b> <b>Ceremony best oral presentation- and best poster award</b> <b>Closing symposium</b></p>
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