

ABSTRACTS FROM THE 2018 ANNUAL CONFERENCE

26th-27th October 2018 University of Otago, Dunedin, New Zealand

16:15	Perceptual and	The role of informal,	
	physiological responses to differing ergogenic mouth swilling solutions. Russ Best	unstructured practice in developing football expertise: the case of Brazilian 'Pelada'. Luiz Uehara	
16:30	Hepcidin and iron status in elite female rugby players. Simone Smith		
16:45-18:00	POSTER PRESENTATIONS		
18:00-18:30	Updates from our international counterparts ESSA, ACSM, BASES.		
18:30- onwards	MOU Signing and Celebration + Social function at University of Otago Staff Club		

Day Two: Sat	urday 27 th October (Hutton	Theatre)	THE RESERVE OF THE PARTY.	
08:00-08:30	Refreshments			
08.30-09:30	Keynote Speaker: Dr Shona Halson, Australian Catholic University			
Parallel Sessions	Hutton (Heat stress)	Tekapo (Sport Med/Biomech)	Barclay (Sport psychology)	
9:35	Does the mode of heat acclimation affect the kinetics of adaptation? Lorenz Kissling	History of concussion is associated with higher head acceleration during simulated rugby tackle. Melanie Bussey	Effects of sleep deprivation on perceptual-motor performance under low and high threat. Arne Nieuwenhuys	
9:50	The impact of solar radiation exposure on professional team-sport training and recovery. Fergus O'Conner	New Zealand Rugby Community Concussion Strategy: 2018 Pilot Study. Janelle Romanchuk	Life skills acquisition and psychological development in elite cricketers: evaluating the effectiveness of a life development intervention. Adam Miles	
10:05	Heat response testing in elite rugby sevens athletes: an eye to Tokyo 2020. Stephen Fenemor	The effects of fatigue on the spine motion of cricket fast bowlers. <i>Corey Perrett</i>	Working memory training in a modified Loughborough soccer passing test impacts skill performance in youth football players. <i>Joseph Hall</i>	



53.GPS analysis of a team competing at a national Under 18 field hockey tournament van der Merwe, F.H; Haggie, M.B.P

Waikato Institute of Technology

The purpose of this study was to utilise global-positioning system (GPS) technology to quantify the running demands of national Under 18 field hockey players competing in a regional field hockey tournament. Ten male players (mean \pm SD; age 17.2 \pm 0.4 years; stature 178.1 \pm 5.2 cm; body mass 78.8 \pm 8.8 kg) wore GPS units while competing in six matches over seven days at the 2018 New Zealand national under 18 field hockey tournament. GPS enabled the measurement of total distance (TD), low-speed activity (LSA; 0 -14.9 km/hr), and high-speed running (HSR; \geq 15 km/hr) distances. Differences in running demands (TD, LSA, HSR) between positions were assessed using effect size and percent difference \pm 90% confidence intervals. Midfielders covered the most TD and LSA per game and strikers the most HSR during the 6 matches. There were "very large" differences between strikers and midfielders for TD and LSA, strikers and defenders for LSA and HSR, and defenders and midfielders for LSA. These results suggest that these playing positions are sufficiently different to warrant specialised position-specific conditioning training leading into a field hockey tournament.

54.Psycho-Behavioural Momentum: Golf Match-Play Player's Perspectives

¹McCarthy, C.J; ²Parker, J.K; ³Jones, M.I, ¹Lovell, G.P.

¹University of the Sunshine Coast; ²University of Gloucestershire; ³Exeter University

Introduction: Psycho-behavioural momentum (PBM) has been defined as the positive or negative change in cognition, affect, physiology, and behaviour caused by an event or series of events that affects competitors' perceptions of, the quality of performance, and the outcome of the competition. The aim was to capture, in real time, cognitions, emotions, and behaviours that match-play golfers perceived as important determinants of PBM. Method: A qualitative in-match recording technique logged players' (N = 10; Mage = 26.5 years; MGA handicap = -.9) self-reported cognitions, emotions, and behaviours associated with PBM. To complement the match-play data, semi-structured focus group interviews were conducted to corroborate and extend findings from the match-play data. Results: Thematic analysis identified three themes key to the experiences of PBM: (1) in-game unexpected events; (2) perceived control of PBM; and (3) temporality of PBM. Discussion: Our findings provide further support for existing conceptual psycho-behavioural models that assist in explaining how individuals experience PBM in competitive skill based sports such as golf. Take home message: These findings can be used to facilitate the design of efficacious interventions that seek to enhance performance through building athlete awareness of and managing of potential ingame PBM fluctuations.

55. How does heat stress affect the exercise response in females?

Zheng, H; Mundel, T; Lei, T, Badenhorst, C.E.

Massey University

This study investigated the additive effect of heat stress on the physiological and performance responses to exercise in women. Six unacclimated, moderately trained and eumenorrhoeic females (age: 39 ± 11 y; VO2max: 50 ± 8 ml·min–1·kg–1) have been recruited for this study thus far. Each completed an experimental trial in 21 ± 1 °C (MOD) and 32 ± 0 °C (HOT) consisting of 20 min fixed-intensity cycling followed by a 30 min self-paced time-trial. The increase in rectal temperature was 0.21 ± 0.15 °C greater in HOT (P = 0.04), accompanied by higher heart rate (by 5 ± 2 beats-min-1; P < 0.01) and perceived exertion (by 0.6 ± 0.2 a.u.; P < 0.01). However, mean power output (143 ± 27)

