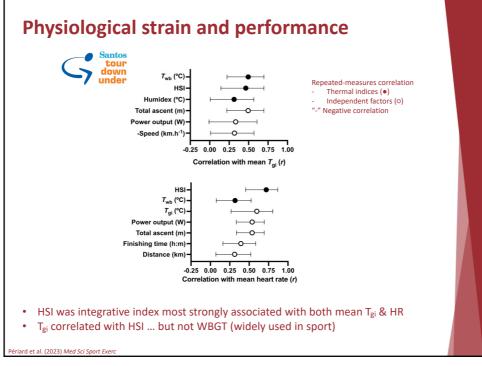
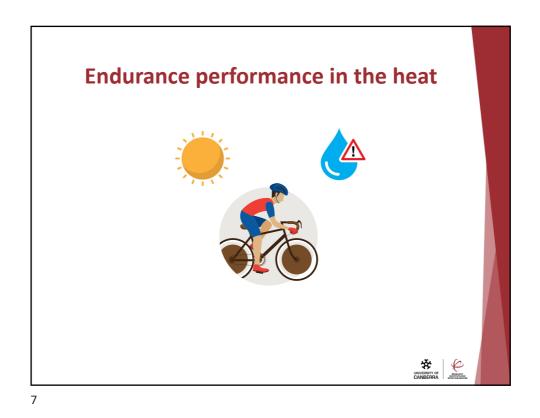
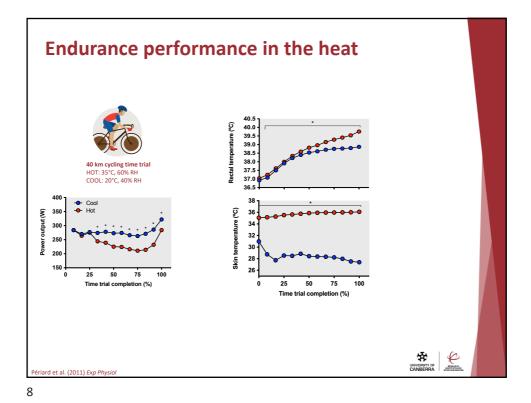
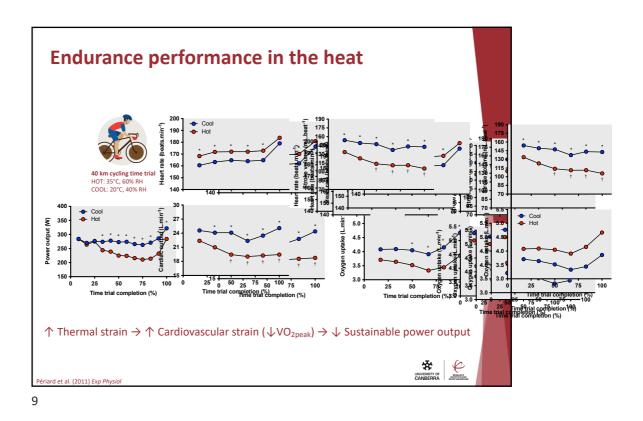


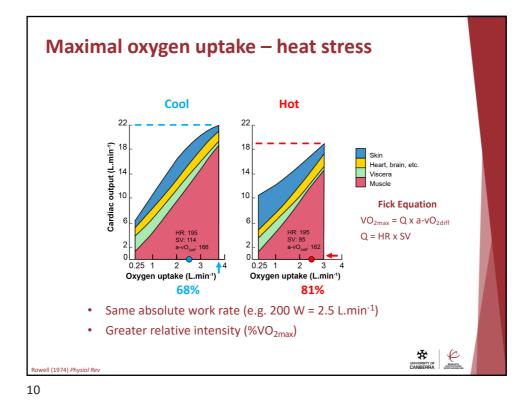
		Santos			UCI CYCLING REGULATIONS				
	tour down under			PART 2 ROAD RACES					
•		VBGT: Wet-bulb globe temperature			Protocol for discussions regarding extreme weather and the riders' safety during events The protocol shall be applied in men's events of the UCI WorldTour and UCI ProSeries				
•	Tab: Dry-bulb temperature Tab: Dry-bulb temperature Heat Index Humidex UTCI: Universal thermal climate index HSI: heat stress index			as well as in women's events of the UCI Women's WorldTour and UCI ProSeries in order to prevent and avoid incidents or problems relating to extreme weather conditions pr nears sately during events. All other road events are equally recommended to reter to the procedures set out in the protocol when appropriate.					
				Problems					
				Freezing rain; Accumulation of snow on the road:					
					visibility, bllution.				
BLE 3. Mea	in power output, mean ar	nd peak T _{el} and HR, and	sRPE and thermal se	nsation during the six stag	es of the 2019 TDU.				
LE 3. Mea	n power output, mean ar Mean Power (W)	nd peak T _{gi} and HR, and Mean T_{gi} (°C)	l sRPE and thermal se Peak T _{gi} (°C)	nsation during the six stag Mean HR (bpm)	es of the 2019 TDU. Peak HR (bpm)	sRPE	Thermal Sensation		
Stage 1	Mean Power (W) 183 ± 72 ^{3,4,5,6}	Mean T _{gi} (°C) 38.3 ± 0.3	Peak <i>T</i> gi (°C) 38.9 ± 0.3	Mean HR (bpm) 140 ± 17 ³	Peak HR (bpm) 187 ± 11	990 ± 286 ^{3,6}	6.1 ± 1.0		
Stage 1 Stage 2	Mean Power (W) 183 ± 72 ^{3,4,5,6} 180 ± 59 ^{3,4,5,6}	Mean T _{gi} (°C) 38.3 ± 0.3 38.3 ± 0.4	Peak T_{gi} (°C) 38.9 ± 0.3 39.1 ± 0.5	Mean HR (bpm) 140 ± 17 ³ 131 ± 16 ^{1,3,4,6}	Peak HR (bpm) 187 ± 11 186 ± 10	990 ± 286 ^{3,6} 809 ± 293 ^{1,3,4,5,6}	6.1 ± 1.0 5.5 ± 0.8 ³		
BLE 3. Mea Stage 1 Stage 2 Stage 3 Stage 4	Mean Power (W) 183 ± 72 ^{3,4,5,6}	Mean T _{gi} (°C) 38.3 ± 0.3	Peak <i>T</i> gi (°C) 38.9 ± 0.3	Mean HR (bpm) 140 ± 17 ³	Peak HR (bpm) 187 ± 11	990 ± 286 ^{3,6}	6.1 ± 1.0 5.5 ± 0.8^3 6.2 ± 0.7 $4.5 \pm 0.9^{1,2,3,6}$		
Stage 1 Stage 2 Stage 3	$\begin{array}{c} \textbf{Mean Power (W)} \\ 183 \pm 72^{3,4,5,6} \\ 180 \pm 59^{3,4,5,6} \\ 232 \pm 61^4 \end{array}$	Mean T _{gi} (°C) 38.3 ± 0.3 38.3 ± 0.4 38.5 ± 0.5	Peak T _{gi} (°C) 38.9 ± 0.3 39.1 ± 0.5 39.4 ± 0.4	Mean HR (bpm) 140 ± 17 ³ 131 ± 16 ^{1,3,4,6} 147 ± 14	Peak HR (bpm) 187 ± 11 186 ± 10 188 ± 9	990 ± 286 ^{3,6} 809 ± 293 ^{1,3,4,5,6} 1668 ± 312	6.1 ± 1.0 5.5 ± 0.8^3 6.2 ± 0.7		

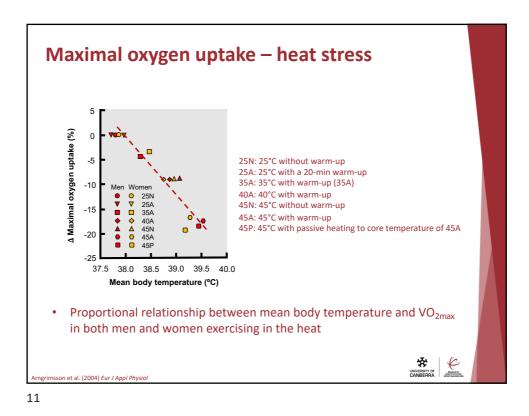


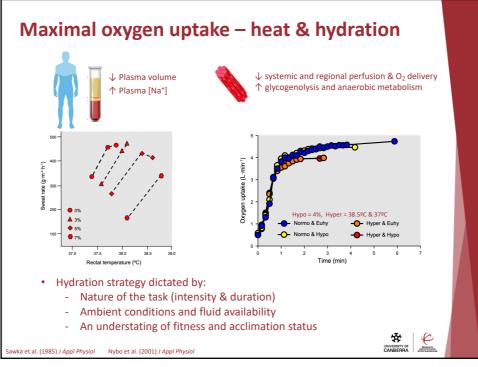


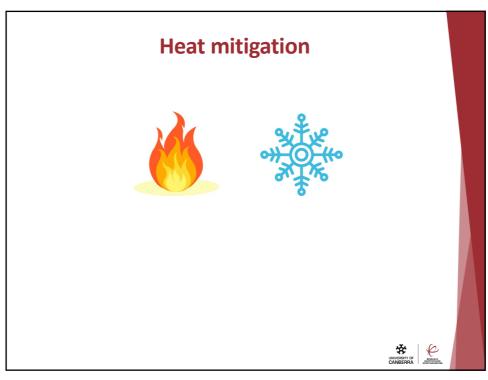


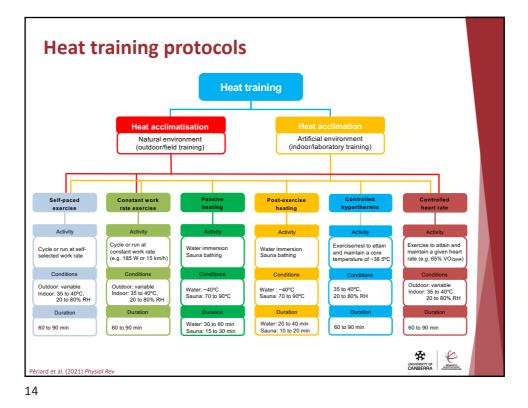


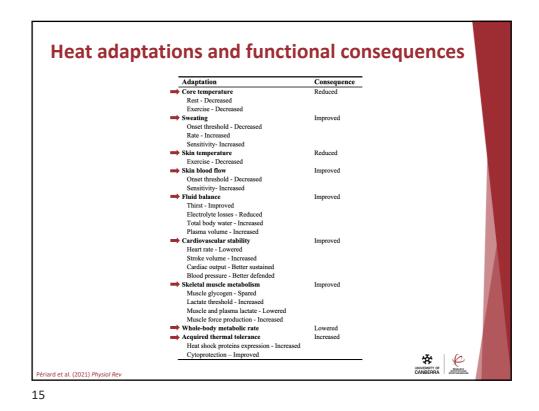


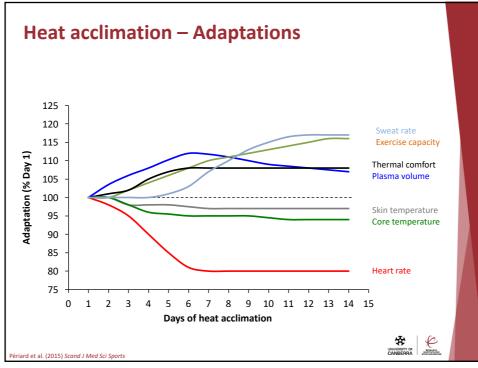


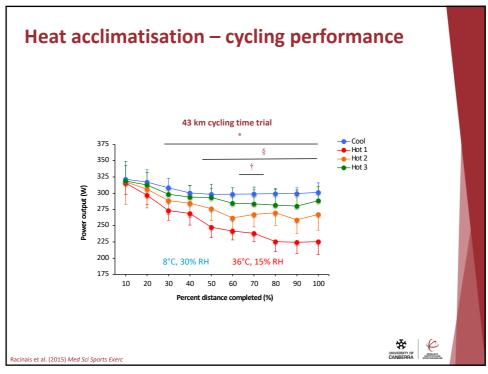


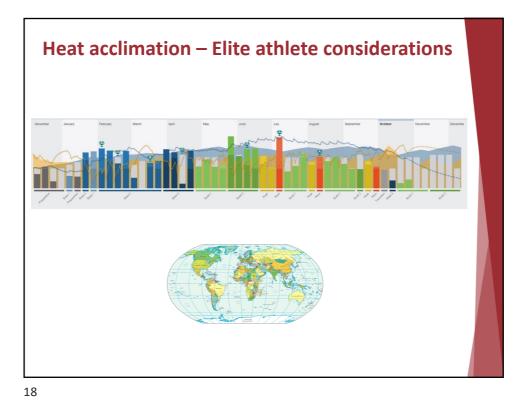


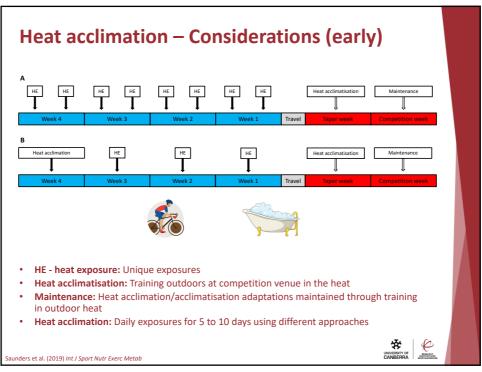


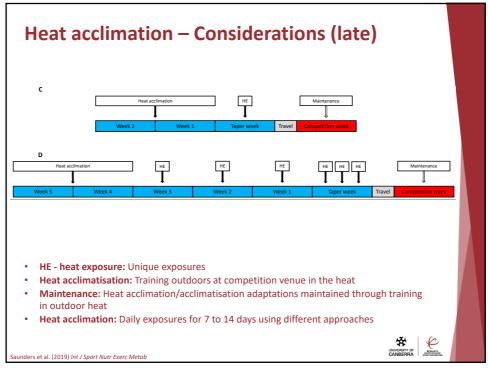












Cooling Technique	Examples	Precooling	Per-Cooling	Key Advantages	Potential Disadvantages
External Cooling					
Cooling garments	Cooling vest Ice vest Cooling packs Ice towel Neck collar	J	1	Most effective per-cooling strat- egy Available in different types and sizes Garments can be adjusted to sport type Phase change materials can be adjusted to melting-point spe- cific cooling temperatures (i.e., e°C, 1°C, 2°C) Easy to apply and implement	Additional weight may hamper use for per-cooling Large differences in cooling time and rate across gar- ments Sport rules and regulations may prohibit use during competition
Cold water immersion	Whole body immersion Partial water immersion	7		Most effective precooling strat- egy Covers a large part of the body	Difficult to implement in field- based settings Special equipment is needed (e.g., bath, ice) May lower muscle temperature below optimal physiological state
Fan use Internal Cooling	(Cold) air fanning Water spray + fanning	1		Easy to apply and implement	Only applicable to static condi- tions Less effective in humid environ- ments Electricity or batteries required
Cold/iced beverage ingestion	Cold water ingestion Ice slurry ingestion	1	1	Direct effect on core body tem- perature Contributes to maintain fluid bal- ance Easy to apply and implement	Potential gastrointestinal discomfort

