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## Risk assessment RA20 Treadmills

Faculty / Service Area	Faculty of Health Sciences and Sport	Health Sciences and Sport Location Cottrell 3B142, Pathfoot L19								
Description of work task / e	Description of work task / equipment /area being assessed									
Exercise testing using tread	mills									
Change log	Version 1.129 Aug 2022Expanded this sectionVersion 1.211 July 2023Referenced regulations and SOPs									
Head of faculty	Prof Jayne Donaldson	Safety office		Dr Nidia Rodriguez Sanchez						
Completed by	Dr Stuart Galloway	Date		7 Jul 2020						
Reviewed by	Dr Nidia Rodriguez Sanchez	Date		11 July 2023						
	Chris Grigson	Date of next	review	August 2024						
Equipment used	Treadmills, HP Cosmos Pulsar and Pow	erjog								
Categories of people involv	ed Staff, UG, PG, Visitors									
Duration of activity	<3hrs	Frequency o	activity	Daily						
		Health and Safety at Work act 1974 (HASAWA) https://www.hse.gov.uk/legislation/hswa.htm								
Legal compliance to standa		Management of Health and Safety at Work Regulations 1999 (MHSWR) https://www.legislation.gov.uk/uksi/1999/3242/contents/made								
regulations required		Provision of Work Equipment Regulations 1998 (PUWER) https://www.hse.gov.uk/work-equipment-machinery/puwer.htm								

## Physiology, Exercise & Nutrition Research Group



			ndling Operations Regula vw.hse.gov.uk/pubns/pric		(MHR)				
What are the hazards?	Hazard category	Who might be harmed and how?	What are you already doing to control the risks?	*Risk rating	What additional controls (if any) are required to reduce the risks?	*Risk rating	Action by who?	Action by when?	Date of completion
Overexertion	F4	User Low blood pressure - fainting High blood pressure episode Cardiac arrest Muscle fatigue Cramp Joint pain Pulled muscles, ligaments and tendons. Dizziness Hyperventilation Nausea Exhaustion	Risk assessment RA01 and RA02 Participants must go through health and fitness screening before use Only trained investigators allowed to use machine All users instructed to warm up before and down after the test All users instructed to stop if they experience unusual symptoms during the test	1x4=4					
Pinch points, inrunning nips and crushing	F4	User Crush injuries Shearing injuries	SOP with clear instruction on correct use of machine. Machine guarding	1x2=2					



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			Regular inspection and testing of belt guards and safety systems						
			Signage warns of the hazards						
			Instruction on safety systems on the machine including teathers, fall detection and the emergency stop button						
			Users instructed not to put any part of their body or any object close to the edge of the running belt or rollers						
			Any injury to be reported to safety officer and advice sought from a first aider.						
			First aid box by in Cottrell 3b142b and Pathfoot L19						
			List of first aiders on door						



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Slips, trips and falls	F4	User Trips over machine frame Collisions with machine Falls while the machine is running	SOP Area around machine to be kept clear of debris Floor, grips, and belt to be cleaned regularly and checked for adequate grip before the machine is used Users instructed to keep area behind treadmill clear of objects for 2m and place a crash mat there for and test likely to result in exhaustion or loss of coordination such as maximum effort testing Area around machine to be kept clear of sharp edges from eg furniture brought in from another area	1x2=2					



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			First aid box close by in Cottrell 3b142b and Pathfoot L19						
			List of first aiders on door						
Jewellery and inappropriate clothing	F4	User Cuts and lacerations Limbs caught up in clothing during exercise	SOP User instructed to remove jewellery and inappropriate clothing before test	1x1=1					
References and		pation medical evaluan njopensem.bmj.com/c	tion for elite athletes content/bmjosem/7/4/e0	01178.full.	<u>pdf</u>				
Further reading	RA18 Meta RA20 Trea	sk Assessments abolic testing dmills cle damage	Standard Operat Cosmed Quark C CosmedK5	pet Dou	ures Iglas Bags Cosmos Pulsar 3P				
	Laboratory Risk Assessments								
	_	chingLab_L19	RA82_Physiology	_					
	RA83_Neu	iromuscularLab_3B14	2D RA84_Multipurp	oseLab_3A	72				

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