## Table 1 Details of the supervised exercise programme

	Details
Goals of the intervention	The primary goal of the supervised exercise programme is to reduce ulcer healing time via training-induced improvements in calf muscle pump
	function, ankle range of motion, and lower-limb cutaneous microvascular function. Secondary goals are reduce cardiovascular disease risk, to
	improve health-related quality of life, and to improve several aspects of physical fitness including cardiorespiratory fitness, muscle strength and
	endurance, and flexibility.
Materials used in	Two motorized treadmills (Life Fitness 95T Achieve); two upright exercise bikes (Life Fitness 95C Achieve); pairs of dumbbells ranging 2-20
intervention delivery	kg; one height-adjustable step; one medium-sized stability (Swiss) ball; one seated leg press machine (Life Fitness Signature Series);
	Theraband; Polar heart rate monitor; Borg 6-20 rating of perceived exertion scale; radio for music; water-dispensing machine; two large fans on
	stands
Procedures used in the	Participants will be invited to attend 3 sessions of supervised exercise each week for 12 weeks (total of 36 sessions). Each exercise session will
intervention	last approximately 60 minutes and will comprise a combination of aerobic, resistance and flexibility exercises. Sessions will typically be
	delivered on Mondays, Wednesdays and Fridays to allow sufficient recovery between sessions, and will be performed either in the late morning,
	afternoon or early evening. A maximum of 14 weeks will be allowed for the participants to complete the 36 sessions, for if sessions are missed
	due to, for example, illness or holiday.
	<u>Warm-up:</u> Each session will begin with a 5-minute warm-up of low-intensity treadmill walking or cycling, determined by participants' physical
	function and preferences. The target for the warm-up period is for the participant to exercise at an exertion level of no higher than 11 (light) on
	Borg's 6-20 rating of perceived exertion (RPE) scale.
	Aerobic component: The aerobic component will last approximately 30 minutes, with the exercise mode being treadmill walking, cycling, or a
	combination of both, determined by the physical function and preference of participants. Treadmill hill-walking will be the preferred mode,
	since it promotes greater recruitment of the calf musculature than cycling. The intensity of exercise will be guided by the use of Borg's 6-20
	scale, with participants encouraged to exercise at an exertion level of 12-14 (somewhat hard).
	Resistance component: Resistance exercises will be performed for approximately 15 minutes. Four exercises should be completed in each
	session: two targeting the calf muscles and two targeting the muscles of the thigh and hips. The exercises will predominantly involve dynamic
	body-weight exercises with or without the use of dumbbells and stability balls. An example calf exercise is the standing calf raise. Example
	thigh/hip exercises include partial squats and the chair sit-to-stand exercise. Exercises will be performed for 2-3 sets of 10-15 repetitions to the
	point of moderate muscle fatigue.
	Cool-down and flexibility component: The participant should complete a 5-minute cool-down of low-intensity treadmill walking or evoling as
	in the warm-up. Static stretches will then be performed for calves, quadriceps and hamstrings, for a total of 60 seconds per muscle group
	(comprising $3 \times 20$ -second stretches), held at the point of mild discomfort.
Intervention provider	The exercise programme will be supervised by exercise physiologists who have several years' experience of exercise supervision and
-	prescription. The exercise physiologists all received at least one day of training specific to the trial from one of the co-applicants (GT) who has
	completed trials of supervised exercise training in several different patient populations.

Mode of delivery	All sessions were supervised. A maximum of 4 participants to 1 supervisor is allowed, to ensure patient safety, successful delivery of the
	exercise session and all relevant data collection.
Where the intervention	The exercise programme is delivered at the Centre for Sport and Exercise Science at Sheffield Hallam University and the Human Performance
is delivered	Centre at the University of Lincoln. These centres have free parking and exercise facilities that are dedicated for research (i.e. they are not used
	by the public).
How the intervention is	At the start of the programme, the exercise physiologist will work to determine which exercises the participants prefers and which are the most
personalised and	appropriate based on the participant's current levels of physical fitness and mobility. The initial goal is for participants to build up to completing
adapted	three, one-hour sessions of exercise each week as described above. Once the session frequency and duration targets are being met, the intensity
	of the specific exercises will be progressed on an individual basis. For the aerobic component, the speed and incline of the treadmill and the
	resistance level of the bike will be increased to keen the participant within the RPE range of 12-14. For the resistance component, the weight or
	type of every so will be adapted to the participant continues to reach the point of moderate muscle feigure within 10.15 reparticipant
	type of exercise used win of adapted so that the participant continues to reach the point of moderate master ranged within 10-15 repetitions.
Strategies to maintain	The timing of the sessions will be flexible to help participants achieve three sessions per week. Free parking is available at each site and
intervention fidelity	participants receive up to £5 per visit towards travel expenses. Each session must be supervised by an investigator who has received specific
	training for this trial. One of the co-applicants (GT) will provide oversight to the delivery of the exercise intervention, and this will include
	regularly observing sessions and checking CRFs for errors.
Processes for evaluating	A specially-designed Exercise Session Case Report Form (CRF) will be completed every session. The following information will be written at
intervention attendance	the top of each of these forms: participant initials and trial ID number; date and time of session; session and week numbers; supervisor name(s).
and compliance	The supervisor will also record the type of compression garment being worn by the participant, or "none" if that is the case (note: the participant
	is allowed to complete an exercise session without compression garments being worn; however, they should be encouraged to wear them in
	future sessions) The participant will be fitted with a Polar heart rate monitor at the start of each session
	Tatale sessions). The participant will be fitted with a form from the monitor at the start of each session.
	During the warm up perchic and cool down sections RPE (Borg 6.20 scale) heart rate (via telemetry) and exercise type and settings (e.g.
	trade will encode and enclose and cooled own sections, RT 15 (borg or 20 sector), heat rate (via telentry) and excrete type and sectings (c.g.
	treadmin speed and gradient) will be recorded for the last 15 seconds of each 5-minute period. This will anow accurate quantification of the
	exercise stimulus and progression of the programme over time. Similarly, the types of resistance and flexibility exercises performed will be
	recorded, along with details of number of sets, repetitions and end-exercise RPE.
	Compression garments (stockings/bandages) will be monitored during each exercise session: if affected by exercise, participants will be referred
	to the tissue-viability nursing team for re-application, with additional visits being noted for the health-economics analyses. If sessions are
	missed, the reason(s) for this will be documented on the CRF.