

Exercise Progression Instructions

The following protocol is used to *gradually* return you to activity.

After **ALL** concussion symptoms (including headache) have resolved, you can begin the protocol.

1. Determine your RESTING HEART RATE (HR). The average is 60-80 beats per minute The radial pulse is located just below the thumb. The carotid pulse is located the side of the neck. Use two fingers when checking your pulse (not your thumb). Press lightly until you feel the pulse. Use a watch or clock and count the number of beats in one minute.





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- 2. Determine your MAX HEART RATE by subtracting your age from 220.
- 3. Determine you TARGET HEART RATE. This is the average range of heart rate reached during exercise which enables your heart & lungs to receive the most benefit from exercise. Use the following formula:

Target HR = $[(Max HR - Resting HR) \times target \%] + Resting HR$ Example: a 15 year old with resting HR of 60, exercising at 50% exertion Target HR = $[(205 - 60) \times 50\%] + 60 = 132$ beats per minute

- 4. Pay careful attention to your symptoms, your thinking, and your concentration skills at each stage of activity.
- 5. A 24 hour rest period should be taken before progressing to the next stage.
- 6. Move to the next stage of activity only if you do not experience any symptoms when completing the current exercise stage.
- 7. If your symptoms return, immediately discontinue activity and rest for 24 hours. If symptoms do not resolve or significantly worsen, consult your physician and/or athletic trainer.



Name of Athlete: Date Sympt	om-free:
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Soccer Specific Exercise Progression

	EXERCISE	Day/Date		OMPLETED / COMMENTS
Stage 1	Goal is to reach 30-40% of maximum heart rate Walking at 2.5 mph or		YES	
	Riding a stationary bike for 20-30 minutes.		NO	Supervisor's initials
Stage 2	Goal is to reach 40-60% of maximum heart rate Jogging (medium pace) for 20-30 minutes		YES	
	Sit-ups x 25, Push-ups x 20, Lunge walks x 20		NO	Supervisor's initials
Stage 2	Goal is to reach 60-80% of maximum heart rate Running (fast pace) for 20-30 minutes, Sit-ups x 50, Push-ups x 30, Lunge walks x 30. Practice individual drills for 15 minutes: can include		YES	
Stage 3	juggling, cone drills, penalty/goal/corner kicks, sprints, backpedaling. No headers or diving for ball.		NO	
				Supervisor's initials
	Goal is to reach 80% of maximum heart rate			
	Participate in Non-Contact practice drills:		YES	
Stage 4	Warm up (jogging/stretching 10-20 minutes)		1123	
	and practice with teammates for 45-60 minutes total. Can include drills from Stage 3 but no		NO	
	touching another person, no headers, no diving			
	for ball. Burpees with a jump x 10.			Supervisor's initials
	RETURN TO OFFICE FOR FINAL VISIT			
Stage 5	Goal is to reach full exertion. Participate in full-contact practice, can resume headers/dives.		YES	
			NO	Supervisor's initials
Stage 6	Goal is to reach & maintain full exertion. Resume full participation in competition		YES	
			NO	Supervisor's initials