Phase	Estimated Timeline	Variable	Exercises and Recommendations
		Goals and General Comments	Closely monitor signs of irritation and/or overload
Phase 1 (Acute	Weeks 0-2		Progressively increase pain-free hip ROM in all planes
			Improve lower limb proprioception, muscular control and activation
			Normalize heel-toe pattern during full WB gait (1 crutch for painful cases)
			Soft tissue release as needed (psoas, rectus femoris, adductors, TFL)
		Plinth Exercises	Psoas (supine/kneeling/standing) and quadriceps stretching
			Supine hip external rotation with theraband
			Supine bridging (± theraband resistance for isometric hip abduction)
			Ball bridging
			Progress bridging exercises (i.e. single limb and ball bridge variations)
			Prone isometric heel (and gluteal) squeeze
			Prone hip extension (with extended and flexed knee)
Rehabilitation)			Clam exercises
			Side lying hip abduction
		WB Exercises	Single leg balance and proprioceptive exercises (as pain permits)
			Standing 'weight shift' activities (using slide boards)
			Wall/ball and free standing squats (0-75°) with theraband resistance as tolerate
		Cardiovascular	Stationary 'high-seat' cycling if ROM permits (no-low load), 2 x daily (10-20 min
			Well managed pain and inflammatory control
		Criteria to Progress	Good tolerance to load during 'weight shift' activities
			Proficiency in all non-WB and WB exercises prescribed
			Normalized heel-toe gait pattern
			Adequate single limb balance and proprioceptive control (-ve trendelenburg)
			Continue Phase 1 activities
	Weeks 3-4	Goals and General Comments	Progress toward full and pain-free hip ROM
			Progressively increase lower limb strength
			Further enhance proprioception, balance and neuromuscular control
			Improve confidence in walking gait, exercises and daily activities
		Plinth Exercises	Side lying knee extension with theraband (in positions of hip abduction)
			4pt hip extension with theraband
			Supine hip thrust (single leg)
Phase 2 (Early			Standing hip extension and abduction using therabands
Rehabilitation)		WB Exercises	Full range wall/ball and free standing squats (theraband resistance as tolerated
			Bosu (unstable surface) squats
			Lunges (theraband resistance as tolerated)
			Step Exercises (step ups and downs, front step downs, lateral drops)
			Progress proprioceptive exercises (i.e. ball throws etc.)
		Cardiovascular	Stationary cycling (duration/load as tolerated), including interval training
		Criteria to	Pain-free hip ROM in all planes ≥90% of contralateral limb
		Progress	Proficiency in all non-WB and WB exercises prescribed
Phase 3 (Late Rehabilitation)	Weeks 5-6	Goals and General Comments	Continue variation in Phase 1-2 exercises
			Progressive increase in trunk, core and lower limb endurance and strength
			Progressive increase in lower limb muscular strength and power
		Plinth Exercises	Side and prone bridging
			Arabesque
		WB Exercises	Pelvic drops
			Walking lunges (straight line)
			Lateral (crab) and frontal (sumo) theraband walks
			Single leg squats (ball/wall, free stand, with hip abduction on ball)
			Functional and proprioceptive single limb exercises (e.g. star excursion)
			Elliptical and crosstrainers introduced, including interval training
		Cardiovascular	Jogging - flat surface, straight lines
			Peak isometric hip strength (all planes) using a HHD ≥90% of contralateral limb
		Criteria to	Proficiency in undertaking $\geq$ 15 consecutive single leg squats (75-90° knee flexion
		Progress	Performance on the modified star excursion balance test $\geq$ 90% contralateral lim
			Periormance on the monthed star excursion balance test 290% contralateral lim

Phase 4 (Advanced Rehabilitation)		Goals and General Comments	Continue variation in Phase 1-3 exercises
			Progressive increase in lower limb muscular strength and power
			Restoration of sound jump, hop and land mechanics
		Jump, Hop and/or Plyometric Exercises	Bilateral jumping exercises (horizontal and vertical)
			Bilateral jumping exercises (with plyometric focus)
			Bilateral jumping exercises (with single limb land ± plyometric focus)
			Side-to-side jumps over box (± additional weight as required)
	Weeks 6-12		Cross directional jumping exercises (clock jumps ± theraband)
			Single limb hop (horizontal and vertical)
			Single limb hop variations (side, 6m timed, triple and triple crossover)
			Varied hop exercises (clock hop, square hop etc.)
			Bench drops (controlled single limb lands)
			Bench drops (with bilateral plyometric jump)
			Bench drops (with plyometric jump and land on single limb)
			Bench drops (with plyometric jump and land on single limb on bosu)
			Bench drops (with plyometric jump and land on single limb with ball)
		Cardiovascular and/or Agility	Running - flat surface, straight lines, backwards, lateral shuffle
			Introduce agility exercises (i.e. T-test, Illinois, Figure-8 runs etc.)
		Criteria to Progress	Sound jump/land mechanics during all jump/hop/plyometric exercises introduced
			Competency and well tolerated return to running activities
			Single limb hop performance ≥85% of contralateral limb
		Goals and General Comments	Continue variation in Phase 3-4 exercises
	Weeks 12- 16		Restore lower limb strength and functional symmetry
		Cardiovascular and/or Agility	Advance agility exercises
Phase 5 (Agility and Return to Activity-Specific			Running - unrestricted, cross directional, cutting manoeuvres
		Sport Activities	Sport-specific drills
			Return to training (non-competitive and competitive)
Training)		Criteria to Progress	Competency and well tolerated return to progressive agility drills
			Competent and confident return to non-competitive, sport-specific training drills
			Single limb hop performance ≥90% of contralateral limb
			Peak isokinetic quadriceps and hamstrings strength ≥85% of contralateral limb
Phase 6 (Return to Sport)	Week 16 onwards	Goals and General Comments	Continue to build general fitness, as well as lower limb strength and power
			Successful return to sport
		Sport Activities	Return to sport
			Provision (and competency) of relevant injury prevention program
		Criteria to Progress	Competent and confident return to competitive, sport-specific training drills
		Prior to RTS	Sound patient-perceived pain/function (consider ≥96/100 on the HOS-ADL Score)
			Sound patient-perceived sport capacity (consider ≥80/100 on the HOS-Sport Score)
			Hip ROM in all planes ≥90% of contralateral limb
			Hop symmetry (single, triple and triple crossover) ≥90% contralateral limb
			16-hop timed agility test symmetry ≥90% contralateral limb
			Modified Agility T-test symmetry ≥90% contralateral limb
			Modified Agility T-test symmetry ≥90% contralateral limb Peak isokinetic quadriceps and hamstrings strength ≥90% contralateral limb
			Modified Agility T-test symmetry ≥90% contralateral limb Peak isokinetic quadriceps and hamstrings strength ≥90% contralateral limb Sound hop and land lower limb and trunk mechanics