Supplementary Table 2. Tests and Their Procedures

ONE LEG HOP FOR DISTANCE- The hop test is a measured maximal leap test where the subject starts on 1 leg, jumps as far forward as possible and lands on the same leg. Arm swing is allowed. The comparison between legs is often performed by dividing the lesser value by the greater value and multiplying by 100 to produce a symmetry index (DANIEL 1982 IS ORIGINAL ARTICLE)

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STUDY & YEAR	TEST NAME	ALTERNATE TEST	WARM-UP	FINAL SCORING
		DESCRIPTION		MECHANISM
Augustsson 2004	Single leg hop	Hands on hips	Stationary bike for 10	Mean of 3 successful
		throughout the test	minutes, 15 squats,	trials
			and 20 toe raises	
			followed by 2 practice	
			trials	
	Fatigued single leg hop	Knee extension to	Stationary bike for 10	Mean of 3 successful
		fatigue at 50% of a 1	minutes, 15 squats,	trials
		repetition max (RM)	and 20 toe raises	
		then testing with hands	followed by 2	
		on hips throughout the	submaximal sets of	
		test	knee extension	
Barber 1990	One-legged hop for	In accordance with the	None identified	Mean of 2 attempts
	distance	usual		
Battaglia 2007	Single leg hop	No description provided	None identified	Mean of 3 attempts
Bjorkland 2006 and	One leg hop for distance	The patient jumps	Stationary bike for 10	The patient and
2009		one-leg hop for distance,	minutes	physiotherapist
		10 hops in rapid		each rate
		succession as far as		performance.
		possible, starting with		1-2 points
		the healthy leg		the patient performs
				a few short hops
				then stops
				3-4 points
				involved leg hops

				25% of the uninvolved leg 5-6 points involved leg hops 50% of the uninvolved leg 7-8 points involved leg hops 75% of the uninvolved leg 9-10 points hopping is the same distance bilaterally
				with equal springiness and rhythm
Brosky 1999	Single hop	Must hold the landing for 2 seconds	1 sub-maximal trial	Mean of 3 trials
Carter 1997	Single hop	In accordance with the usual	None permitted	Best of 3 attempts
Crossley 2007	Hop for distance	In accordance with the usual	Unspecified sub- maximal warm-up	Best of 3 attempts
Eastlack 1999	Single hop	Not described	Followed isokinetic strength testing	Injured limb/non-injured limb x 100
	Triple hop	Not described	Followed isokinetic strength testing	Injured limb/non-injured limb x 100
Gauffin 1990	One-leg long hop	Arms behind the back	None described	Best of 3 attempts
Grindem 2011	Single hop for distance	In accordance with the usual	1 practice trial	Mean of 2 attempts
	Triple hop for distance	3 hops on same leg	1 practice trial	Mean of 2 attempts

Holm 2004	1-leg hop	Not described	None described	Mean of 2 attempts
Hurd 2008	Single leg hop for distance	Not described	2 practice trials	Mean of 2 attempts
	Triple hop for distance	Not described	2 practice trials	Mean of 2 attempts
Jerre 2001	1-leg hop test	Not described	None described	Lesser
				value/greater value
				x 100
Koutras 2009	Single jump	Arms behind back	None described	Best of 3 attempts
Logerstedt 2012	Single hop for distance	Landing must be	None described	Mean of 2 attempts
		controlled and if not, the		
		tests is to be repeated		
	Triple hop for distance	3 hops on same leg	None described	Mean of 2 attempts
		Landing must be		
		controlled and if not, the		
		tests is to be repeated		
Myer 2011	Single hop	Start in a crouched	Practice trials until	Best of 2 trials.
		position on 1 leg, use of	proper technique was	
		arm swing, must hold	achieved (usually 1	
		landing for 1 second	trial)	
	Triple hop	Start in a crouched	Practice trials until	Best of 2 trials
		position on 1 leg, use of	proper technique was	
		arm swing, leap 3 times	achieved (usually 1	
		on the same leg, must	trial)	
		hold landing for 1		
		second		10
Noyes 1991	Single hop	In accordance with the	None described	Mean of 2 trials
	m . 1 1	usual		
2 1 1000	Triple hop	3 hops on the same leg	None described	Mean of 2 trials
Ostenberg 1998	One leg hop for distance	Hands behind back. Must	Sub-maximal effort on	Best of 3 trials
		control the landing	a lower extremity	
			ergometer for 5	

			minutes	
Ross 2002 and 2010	Single leg hop for distance	Start with toe behind the baseline and measure distance to the heel	Stationary bike for 5 minutes followed by quadriceps, hamstring, and calf muscle stretching and 1 practice trial	Mean of 3 trials
Svensson 2006	Single leg hop	Not described	None described	Not stated
Tegner 1986	One-leg hop	Hands behind back	Stationary bike for 10 minutes	Best of 3 trials
Vandermeulen 2001	Forward hop	Tested barefoot with the most posterior part of the foot in front of the starting line. Must maintain balance for 5 seconds	Maximum of 3 progressively longer hops	Mean of 3 successful trials
Wilk 1994	Single leg hop for distance	Start with toe behind the baseline and measure distance to the heel	None described	Mean of 3 trials
Witvrouw 2002	Triple jump	Hop 3 times on 1 leg and provide a pain score	None described	Not stated
Zouita 2009	Single hop	Arm swing allowed	Unspecified 5 minute warm up	Best of 3 trials

SIX METER TIMED HOP- The 6-meter timed hop test measures the time it takes for a subject to traverse 6 meters hopping on one leg. The comparison between legs is often performed by dividing the lesser value by the greater value and multiplying by 100 to produce a symmetry index. (BARBER 1990)

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Barber 1990	One-legged timed hop	In accordance with the	None described	Mean of 2 trials
		usual		
Brosky 1999	Single leg timed hop	In accordance with the	1 sub-maximal trial	Mean of 3 trials
		usual		

Crossley 2007	6-meter hop	In accordance with the usual	None identified	Best of 3 trials
Eastlack 1999	Timed hop	Not described	Followed isokinetic strength testing	Injured limb/non-injured limb x 100
Grindem 2011	6-meter timed hop	In accordance with the usual	1 practice trial	Mean of 2 attempts
Hurd 2008	6-meter timed hop	Not described	2 practice trials	Mean of 2 trials
Logerstedt 2012	6-meter timed hop	In accordance with the usual	None described	Mean of 2 attempts
Noyes 1991	Timed hop	In accordance with the usual	None described	Mean of 2 trials
Skaara 2013	6-meter timed hop	Not described	1 practice trial	Mean of 2 trials
Wilk 1994	Single leg timed hop	In accordance with the usual	None described	Mean of 3 trials

CROSSOVER HOP FOR DISTANCE- The crossover hop test is a measured maximal leap test. The subject must hop back and forth across a 15 cm wide, 6 meter long tape 3 times. The comparison between legs is often performed by dividing the lesser value by the greater value and multiplying by 100 to produce a symmetry index. (NOYES 1991 IS THE ORIGINAL ARTICLE)

Bjorkland 2006 and	Crossover hop	The patient jumps as	Stationary bike for 10	The patient and
2009		wide and long as	minutes	physiotherapist
		possible in rapid		each rate
		succession on a track of		performance.
		8m at a width of 30cm		1-2 points
		and 60 cm		the subject stops
				after a few attempts
				to hop
				3-4 points
				25% of the length of
				the uninvolved leg
				or stops after 50%
				of the distance

				5-6 points 50% of the length of the uninvolved leg but without rhythm and flow 7-8 points 75% of the length of the uninvolved leg but with restricted springiness and rhythm 9-10 points 100% of the distance, springiness, and rhythm of the uninvolved leg
Eastlack 1999	Crossover hop	Not described	Followed isokinetic strength testing	Injured limb/non-injured limb x 100
Grindem 2011	Crossover hop for distance	In accordance with the usual	1 practice trial	Mean of 2 attempts
Hurd 2008	Crossover hop for distance	In accordance with the usual	2 practice trials	Mean of 2 trials
Logerstedt 2012	Crossover hop for distance	Landing must be controlled and if not, the tests is to be repeated	None described	Mean of 2 attempts
Myer 2011	Crossover hop for distance	Start in a crouched position on 1 leg, use of arm swing, leap3 times on the same leg, must	Practice trials until proper technique was achieved (usually 1 trial)	Best of 2 trials

		hold landing for 1		
		second		
Noyes 1991	Crossover hop for	In accordance with the	None described	Mean of 2 trials
	distance	usual		
Skaara 2013	Triple crossover hop	Not described	1 practice trial	Mean of 2 trials
Wilk 1994	Single leg crossover triple	In accordance with the	None described	Mean of 3 trials
	hop for distance	usual		

FIGURE OF EIGHT RUN- The figure of eight is a timed agility test that involves straight ahead running of curves. There is no standardization of distance or severity of curves.

STUDY	TEST NAME	TEST DESCRIPTION	WARM-UP	FINAL SCORING MECHANISM
Bjorkland 2006 and 2009	Figure of 8 jog	Jog straight 2 x 20 meters then in a figure of eight around 2 circles, 4 meters in diameter. After ½ the distance, speed and stride length should be increased to normal	Stationary bike for 10 minutes	The patient and physiotherapist each rate performance. 1-2 points the patient stops jogging 3-4 points jogging is asymmetrical 5-6 points symmetrical jogging but figure 8 is asymmetrical 7-8 points involved leg hops 75% of the uninvolved leg 9-10 points

				hopping is the same distance bilaterally with equal springiness and
				rhythm
Carter 1997	Figure of 8 run	Each subject completes five timed circuits of a	None permitted	Best of 3 trials
		figure of eight		
		constructed by placing		
		cones at each corner of a		
		rectangle 8 m by 5 m in a		
		gymnasium		
	le jump is a maximal leap test			
begins in bilateral stand	ce, jumps and lands on 1 leg, h	ops and lands on the same le	g again, then hops and lar	nds on 2 legs.
Holm 2004	Triple jump	In accordance with the usual	None identified	Mean of two trials
Koutras 2009	Triple jump	In accordance with the usual	None identified	Best of 3 trials
Ostenberg 1998	Triple jump	If subjects increased	Sub-maximal effort on	The best trial
		distance in all 3 trials,	a lower extremity	
		additional trials were	ergometer for 5	
		conducted until	minutes	
		improvement stopped		
VERTICAL JUMP- The v	ertical jump is a maximum jui	mp height test. A standing re	ach height is measured. St	anding in place on
either 1 (single leg) or 2	? legs, the subject squats then i	leaps as high as possible as m	narked by a finger tip reac	h at the apex of the
jump. The reach height	is subtracted from the apex he	eight to determine the jump h	neight.	
Barber 1990	One-legged vertical jump	Chalk is applied to	None identified	Mean of 2 trials
		subjects' fingertips so		
		that a mark is left on a		
		wall. Must take off and		

		land on the same leg.		
Bjorkland 2006 and 2009 Brosky 1999	Single leg vertical jump Single leg vertical jump	land on the same leg. 5 vertical hops in rapid succession as high as possible with springiness Used a slatted device on vertical pole with arms	Stationary bike for 10 minutes 1 sub-maximal trial	The patient and physiotherapist each rate performance. 1-2 points the patient stops the attempt to jump 3-4 points short jumps without springiness 5-6 points 50% of the springiness and height of the uninvolved leg 7-8 points 75% of the springiness and height of the uninvolved leg 9-10 points 100% of the springiness and height of the uninvolved leg 9-10 points 100% of the springiness and height of the uninvolved leg Mean of 3 trials
Koutras 2009	Modified vertical jump	free	None identified	Best of 3 trials
Koutras 2009	Modified vertical jump	A tape measure is	None identified	best of 3 trials

		secured around the			
		subject's belt who is			
		T			
		then instructed to jump			
		vertically and maximally			
		on one leg.			
Ostenberg 1998	Vertical jump	A tape measure is	Sub-maximal effort on	Best of 3 trials	
		secured around the	a lower extremity		
		subject's belt who is	ergometer for 5		
		then instructed to jump	minutes		
		vertically and maximally			
		on both legs. If subjects			
		increased distance in all			
		3 trials, additional trials			
		were conducted until			
		improvement stopped			
Purdam 2003	Single leg hop	Jump and land on the	5 minute warm-up on	2 repetitions and	
		same leg on a 25 degree	a bike followed by	rate pain on a 0-10	
		decline board	stretching of	scale	
			quadriceps,		
			hamstrings, and calf		
			muscles		
SINGLE LEG SQUAT- The single leg squat is a test of motor control, balance and strength that involves standing on 1 leg and					
squatting to a point whe	re the thigh is near parallel to	o the floor then returning to	standing again.		
Bjorkland 2006 and	Single leg squat	3 maximum squats in	Stationary bike for 10	The patient and	
2009		succession	minutes	physiotherapist	
				each rate	
				performance.	
				1-2 points	
				the patient makes	
				an attempt to squat	

Bjorkland 2006 and 2009	Single leg rise from chair	Seated with the knee flexed to 90 degrees or the angle that the subject can rise from with the healthy knee, the patient must stand and then sit again using only 1 leg	Stationary bike for 10 minutes	with the affected knee 3-4 points can squat 25% of the unaffected knee 5-6 points can squat 50% of the unaffected knee 7-8 points can squat 75% of the unaffected knee 9-10 points can squat 100% of the unaffected knee The patient and physiotherapist each rate performance. 1-2 points the patient is able to move slightly 3-4 points able to stand halfway 5-6 points stands with great difficulty and sits without control 7-8 points stands with certain
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				arm assistance and sits with limited control 9-10 points stands without difficulty and sits with control
Purdam 2003	Single leg squat on the decline board	On a 25 degree decline board	5 minute warm-up on a bike followed by stretching of quadriceps, hamstrings, and calf muscles	2 repetitions and rate pain on a 0-10 scale
Ostenberg 1998	One-leg rising	Seated on a height- adjustable bench with one foot on a stool and the other one in the air. A successful rise from the seated position without the use of the arms	Sub-maximal effort on a lower extremity ergometer for 5 minutes	The best trialdistance between the bench seat and the foot stool.
Witvrouw 2002	Unilateral squat test	A full squat is listed as asymptomatic	None identified	The maximum angle achieved without pain
		only 1 study or by 1 author/se		
STUDY	TEST NAME	TEST DESCRIPTION	WARM-UP	FINAL SCORING MECHANISM
Barber 1990	Shuttle run	Sprint in circles around 2 cones 6 meters apart with first, one leg on the	One, half-speed trial with each circling leg	Mean of 2 trials

		inside (circling limb) and then the other		
Barber 1990	Cutting type shuttle run	Over a 6 meter course, sprint from beginning to end, decelerate rapidly, change direction and sprint to the starting point. 2 laps are completed with each limb as the lead.	None identified	Mean of 2 trials
Bjorkland 2006 and 2009	Acceleration/Deceleration	Sprint 2 x 20 meters with deceleration required within 5 meters	Stationary bike for 10 minutes	The patient and physiotherapist each rate performance. 1-2 points the patient is unable to sprint 3-4 points can sprint but not accelerate or decelerate 5-6 points limping during acceleration, is unable to reach full speed, decelerate mostly with the uninvolved leg 7-8 points can accelerate to full

				speed but decelerate unevenly or exceeds the 5 meters 9-10 points accelerates to full speed and decelerates evenly with the 5 meters
Holm 2004	Stair hop	Stand on 1 leg, hop up 22 steps, then hop down 22 steps	None stated	Time to completion in seconds
Myer 2011	Broad jump	Start with the toes of both feet on a line and to use arm swing to leap forward as far as possible. Distance was measured from the start line to where the closest body segment touched on the test mat. Athletes were allowed 2 trials to achieve maximum broad jump distance to be recorded for analysis	Practice trials until proper technique was achieved (usually 1 trial)	Best of 2 trials
Nagano 2010	Star excursion balance test	Custom-made device with 3 measuring cords running in an anterior, posteromedial, and posterolateral direction.	3 practice trials in each direction	The greatest reach of 3 in each direction. Also, the greatest reach in each direction was

		Distance in each direction measured by a sliding device on each cord move with the foot.		added together for a composite score which was normalized to leg length as measured from ASIS to medial malleolus in standing.
Ostenberg 1998	Square hop test	One leg, clockwise hopping over the sides of a 30 x 35 centimeter square	Sub-maximal effort on a lower extremity ergometer for 5 minutes	Maximum number of touches inside the square for each leg in 30 seconds
Tegner 1986	Running up and down a staircase	Running up and down a 25-step spiral staircase	Stationary bike for 10 minutes	Time measured by a stopwatch
Tegner 1986	Running up and down a slope	Running up a 55 meter long slope with a 180 turn halfway up, then running down the same slope	Stationary bike for 10 minutes	Time measured by a stopwatch
Vandermeulen 2001	Lateral hop	Tested barefoot with the most medial part of the foot in front of the starting line. Must maintain balance for 5 seconds	Maximum of 3 progressively longer hops	Mean of 3 successful trials
Witvrouw 2002	Step test	Step up and down a 10- centimeter step. If no pain experienced, the step increases 5 centimeters until pain	None identified	Height of step where pain occurred

	occurs	
	occurs	