

ACL-R / Lower Extremity Return to Sports Assessment

Athlete:		
DOB:		
Sport:		
Date:		
Involvement:		

Ticket To Entry (see page 4 before use)

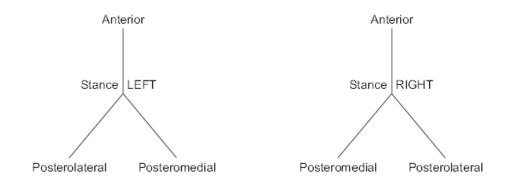
Symmetry Requirements	Right	Left
Knee Flexion / Extension ROM		
CKC Ankle Dorsiflexion		
FMS / Y-Balance (page 2)		
Single Leg Squat Quality		

Jumping Mechanics / Neuromuscular Control

Tuck Jump - Assess front and side view - Sagittal and frontal planes	Non- Parallel / Symmetrical hip flexion Unequal Landing Time (no gallop) Unequal Foot Placement Knee Valgus Pause between jumps Foot placement > shoulder width Excessive landing noise # of errors: Overall Quality : Poor Fair Very Good	Y / N Y / N Y / N Y / N Y / N Y / N Y / N Excellent
 Landing Error Scoring System Assess front and side view Sagittal and frontal planes Slow motion video recording recommended 	Knee Valgus Excessive Knees over Toes Excessive Trunk Flexion Excessive Trunk Side Bend Non-Parallel / Symmetrical Foot Placement Unequal Landing Time Heel landing Excessive Tibial ER/IR (landing) # of errors: Overall Quality : Poor Fair Very Good	Y / N Y / N Y / N



Dynamic LE Functional Reach / Y-Balance



Left Total		Right Total		LSI (%)	
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Strength: Isokinetic Testing / Peak Torque

	30 degrees	45 degrees	90 degrees	120 degrees
Right Knee Ext.				
Left Knee Ext.				
Symmetry Index (%)				

Power

	Right	Left	Quality (P,F,VG,E)	Symmetry Index (%)
Anterior Hop				
Triple Hop				
Lateral Hop				
Vertical Hop				
Triple Crossover Hop				
6M Timed Hop				
Hop and Stop				



Agility / Cutting

Lateral COD (5-10-5)	Quality of Movement: Comments:	Poor	Fair	Very Good	Excellent
Reactive Agility	Quality of Movement: Comments:	Poor	Fair	Very Good	Excellent
T-Drill	Quality of Movement: Comments:	Poor	Fair	Very Good	Excellent
9-Dot Reactive Box Drill	Quality of Movement: Comments:	Poor	Fair	Very Good	Excellent

*Get creative, sport specific, needs analysis, cones and lasers

Sprinting Assessment

	Time	Quality							
10 Yards		Poor	Fair	Very Good	Excellent				
40 Yards		Poor	Fair	Very Good	Excellent				
100 Yards		Poor	Fair	Very Good	Excellent				
100 Yards				2	Excellent				

Comments: (Knee Valgus, Decreased Stride W / L, Insufficient Knee / Hip ROM, Gait Deviation, etc.)

Psychological Readiness

Questionnaire	Score / Interpretation
ACL RTI Scale (orthotoolkit.com/acl-rsi)	
IKDC (orthotoolkit.com/ikdc) appendix pp. 5 & 6	



Important Notes Prior To Assessment

- This return to sport assessment was designed to be used by orthopedic physicians, physical therapists and certified strength and conditioning specialists in the late return-to-sport phase after successful rehabilitation.
- This assessment is not intended to be used during the subacute phases of rehabilitation. It is expected that the patient has successfully completed rehabilitation with satisfactory running and jumping progressions.
- The individual should not perform this battery of tests alone without supervision from a clinician as previously stated.
- This testing battery requires the athlete to perform high intensity and high quality athletic movements under maximal effort, and should be conducted with care. For this reason, the clinician should use clinical judgment and complete the "Ticket To Entry" pre-assessment in order to determine if it is safe for the athlete to attempt the entire battery. It is also highly suggested the athlete perform a proper warm-up prior to beginning the assessment.
- If you are interested or have questions, please contact our office to speak with a physical therapist.

References

Davies GJ, McCarty E, Provencher M, Manske RC. ACL Return to Sport Guidelines and Criteria. Curr Rev Musculoskelet Med. 2017 Sep;10(3):307-314. doi: 10.1007/s12178-017-9420-9.

Gokeler A, Dingenen B, Hewett TE. Rehabilitation and Return to Sport Testing After Anterior Cruciate Ligament Reconstruction: Where Are We in 2022? Arthrosc Sports Med Rehabil. 2022 Jan 28;4(1):e77-e82. doi: 10.1016/j.asmr.2021.10.025.

Unverzagt C, Andreyo E, Tompkins J. ACL Return to Sport Testing: It's Time to Step up Our Game. *IJSPT*. 2021;16(4):1169-1177. doi:10.26603/001c.25463



Appendix IKDC

								ort	h	oto	ol	kit 🝾
Internatio						ttee Si	ubjecti	ve Kne	e Forr	<u>n</u> .		
Patient Na							Affec	ted Kn	ee: R	L	(Circle	One)
Date:												
A: Symptoms Grade sympto even if you ar	ms at the							ould fu	nction v	vithout	significa	nt symptoms,
Str Mc Lig	highest l ry strenu renuous a oderate a ght activi able to p	ious acti activities ctivities ties like	vities lil ike he like mo walking	ke jump avy phy derate j , house	ing or p sical wo physical work, o	ivoting ork, skii work, 1 r yard w	as in ba ng, or te running, vork (+1	sketball nnis (+3 or joggi)	or socc 3) ing (+2)	er (+4)		
2. During the	past 4 we	<u>eeks</u> , or s	since yo	ur injur	y, how (often ha	ve you l	nad pain	?			
Never	0	1	2	3	4	5 □	6 □	7	8	9 □	10	Constant
3. If you have	pain, hov	w severe	is it?									
No Pain	0		2	3	4	5	6 □	7	8	9 □	10	Worst pain imaginable
☐ Mi ☐ Mo ☐ Ve	past 4 we t at all (+ ldly (+3) oderately ry (+1) tremely (-4) (+2)	since yo	ur injur	y, how s	stiff or s	wollen	was you	r knee?			
 5. What is the highest level of activity you can perform without significant swelling in your knee? Very strenuous activities like jumping or pivoting as in basketball or soccer (+4) Strenuous activities like heavy physical work, skiing, or tennis (+3) Moderate activities like moderate physical work, running, or jogging (+2) Light activities like walking, housework, or yard work (+1) Unable to perform any of the above activities due to knee pain (+0) 												
6. During the		eeks, or s		ur injur	y, did y	our kne	e lock oi	catch?				
☐ Str ☐ Mo ☐ Lig	highest l ry strenu enuous a derate a ght activi able to p	ious acti activities ctivities ties like	vities lil like he like mo walking	ke jump avy phy derate j , house	ing or p sical wo physical work, or	ivoting ork, skii work, 1 r yard w	as in ba ng, or te running, vork (+1	sketball nnis (+3 or joggi)	or socc 3) ing (+2)	er (+4)	r knee?	



B: Sports Activities

8. What is the highest level of activity you can participate in on a regular basis?

- Very strenuous activities like jumping or pivoting as in basketball or soccer (+4)
- Strenuous activities like heavy physical work, skiing, or tennis (+3)
- Moderate activities like moderate physical work, running, or jogging (+2)
- Light activities like walking, housework, or yard work (+1)

] Unable to perform any of the above activities due to knee pain (+0)

9. How does your knee affect your ability to:

	Not difficult	Minimally	Moderately	Extremely	Unable to
	at all	difficult	difficult	difficult	do
A. Go up stairs	(+4)	(+3)	(+2)	(+1)	(+0)
B. Go down stairs	(+4)	(+3)	(+2)	(+1)	(+0)
C. Kneel on the front of your knee	(+4)	(+3)	(+2)	(+1)	(+0)
D. Squat	(+4)	(+3)	(+2)	(+1)	(+0)
E. Sit with your knee bent	(+4)	(+3)	(+2)	(+1)	(+0)
F. Rise from a chair	(+4)	(+3)	(+2)	(+1)	(+0)
G. Run straight ahead	(+4)	(+3)	(+2)	(+1)	(+0)
H. Jump and land on your involved leg	(+4)	(+3)	(+2)	(+1)	(+0)
I. Stop and start quickly	(+4)	(+3)	(+2)	(+1)	(+0)

C: Function

10. How would you rate the function of your knee on a scale of 0 to 10 with 10 being normal, excellent function and 0 being the inability to perform any of your usual daily activities which may include sports?

Function prior to your knee injury:

Couldn't perform 0 daily activities 🗌	1	2	3	4	5	6 □	7	8	9 □	10 No limitations I in daily activities
Current function of your knee:										
Couldn't perform 0 daily activities []	1	2	3 □	4	5	6 □	7	8	9 □	10 No limitations

Scoring Instructions:

Question 2: The responses are reverse-scored such that "Constant" is assigned a score of 0 points and "Never" is assigned a score of 10 points.

Question 3: The responses are reverse-scored such that "Worst pain imaginable" is assigned a score of 0 points a "No pain" is assigned a score of 10 points.

Question 10: Only include the "Current function of your knee" when scoring.

All other questions: Use points listed in parenthesis

IKDC Score =
$$\left[\frac{Sum \ of \ Items}{Maximum \ Possible \ Score}\right] \times 100$$

IDKC Score = ____



RMPT at Champlin 1307 Champlin Ave. Utica, NY 13502 P:(315)-624-0100 F: (315)-624-7109