

ACL-R / Lower Extremity Return to Sports Assessment

| Athlete: | | |
|--------------|--|--|
| DOB: | | |
| Sport: | | |
| Date: | | |
| Involvement: | | |

Ticket To Entry (see page 4 before use)

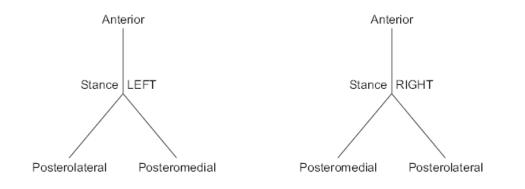
| Symmetry Requirements | Right | Left |
|------------------------------|-------|------|
| Knee Flexion / Extension ROM | | |
| CKC Ankle Dorsiflexion | | |
| FMS / Y-Balance (page 2) | | |
| Single Leg Squat Quality | | |

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 (%) | |
|------------|--|-------------|--|---------|--|
|------------|--|-------------|--|---------|--|

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 = ____



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