UNIVERSITY OF LIMERICK
OLLSCOIL LUIMNIGH

# UNIVERSITY OF LIMERICK RESEARCH ETHICS COMMITTEE

## RISK ASSESSMENT FORM – PROCEDURES INVOLVING HUMAN SUBJECTS

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|---|---|---|---|
| | | Procedure No | **SS 014** |
| Title of Procedure | Force Plate Analysis (Vigorous Activity) | | |
| Name of Assessor | Dr. Drew Harrison | Assessment date | November 2018 |
| Does this procedure already have ethical approval? | | | **Yes** |
| If so, enter ethical number and expiry date | | | **Approval No: 019_11_SS 014 _RA**<br>**End Date: December 2028** |

**1** **Please provide a brief description of the procedure**

In this procedure physically fit and healthy adult subjects or athletes will assessed whilst performing vigorous exercise or sports activities such as running, jumping, kicking, throwing objects etc. The assessment will involve collection of ground reaction force data using one or two AMTI force plates and software. The software will calculate a wide range of kinetic and kinematic parameters from the raw force data.

Note: Standard Operating Procedure for the AMTI Force platforms are avaiailable on the PESS Sharepoint

**2** **Location in which the procedure may take place**

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|---|---|
| x | Teaching Laboratory (PG040) |
| x | Research Laboratory (PG043) |
| Others, please specify | |
| | |
| | |

**3** **Eligibility of subject(s) to be used**

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|---|---|
| x | PESS student (U.G. or P.G.) |
| x | University of Limerick staff or campus personnel |

Others, please specify

| | |
|---|---|
| x | Fit & healthy adults or athlete volunteers engaged in research projects granted ethical approval |
| | |

| 4 | **Potential risks. To be explained before obtaining consent** |
|---|---|

| x | None, or minimal discomfort only |
|---|---|

The risks involved in this procedure arise entirely from the nature of the activities themselves and not the procedure involved. There is no major additional risk to subjects as a result of being measured using the force platform. The subjects involved in this procedure will all be active and proficient in carrying out the motor skills under investigation.

In some trials when simultaneous 3D motion analysis is carried out, subjects may be required to wear exercise clothing or swimming costumes so that anatomical landmarks can be easily identified and marked with retroflective markers or tape.

A third party, preferably of the same sex as the subject, will be present during periods of physical contact between experimenter and subject.

Video recordings will be kept safe and secure and destroyed if necessary at the end of the teaching programme or research project.

| 5 | **Action to be taken in the event of a foreseeable emergency** |
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The procedure will be terminated if the volunteer shows any sign of distress.

Standard first aid procedures may be required depending on the severity of the situation. The following standard procedure should be followed in the event of an incident occurring in the PESS building / UL Facility:

1. Stop the procedure. Position the subject to prevent self-injury.
2. If appropriate, raise the subject's lower limbs to improve blood flow. Should the subject fail to respond summon help immediately.
3. Check vital signs airways, breathing and circulation (ABC)
4. If required attempt CPR as soon as possible.
5. Requesting Help: Emergency Contact telephone numbers are listed on laboratory door:
   - During normal working hours 9am-5pm, use lab phone to contact the Student Health Centre on **061-20**2534
   - Outside of normal working hours, or if the Student Health Centre number is engaged/busy, use the laboratory phone to dial 3333 for UL security personnel who will then contact the ambulance service. Contact one of the PESS First Aiders – names are listed on the PESS laboratory door.
6. When contacting the above clearly state: Location, Building, Room Number, Nature of Incident/Accident and provide a contact number.
7. Complete the UL 'Accident & Emergency' form (completed by the investigator, not the volunteer). Forms available on UL HR website: https://www.ul.ie/hr/hr-policies-procedures-and-forms-z

| 6 | **Level of supervision required for procedure** |
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| | |
|---|---|
| x | PESS lecturing, research staff and teaching assistants |
| x | PESS postgraduate researcher |

Others, please specify

| | |
|---|---|
| x | Trained undergraduate or postgraduate student |
| | |

| 7 | **Other documentation required for this assessment ?** |
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|---|---|
| x | PESS standard pre-test questionnaire |
| | |

Others, please specify

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| | |

**For office use only**

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Procedure No **SS 014**

Title of Procedure: Force Plate Analysis (Vigorous Acti'd!Y)

Name of Assessor: Dr. Drew Harrison

Assessment date: November 2018

**Committee a roval for ex eriment**

[9 Granted

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Others, plerse slecify----------

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**Comments/conditions**

Signed: -4, vv:t

(Head of Department)

Date 11/, I,