



## UNIVERSITY OF LIMERICK RESEARCH ETHICS COMMITTEE

### RISK ASSESSMENT FORM – PROCEDURES INVOLVING HUMAN SUBJECTS

Procedure No

Title of Procedure

Name of Assessor  Assessment date

Does this procedure already have ethical approval ?

If so, enter ethical number and expiry date

#### **1**

In this procedure, physically fit and healthy adult subjects or athletes will be filmed whilst performing vigorous exercise or sports activities such as running, jumping, kicking, throwing objects, etc. Up to 5 video cameras will be used to obtain movement sequences. Light-weight retroreflective passive markers will be placed on the subjects joint centres and other major anatomical landmarks to aid computer construction of segmental models during analysis. The video sequences will be stored and analysed using propriety motion analysis software (i.e. Peak Motus, APAS, or HuMan). Since the procedure only involves collection of movement on video the data capture can be carried out equally well within the University Laboratory or at another site.

Standard Operating Procedure for Montion Analysis Corporaion – Cortex 3D Motion Capture Software is available on the [PESS Sharepoint](#) (see here)

#### **2**

Others, please specify

3

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

PESS student (U.G. or P.G.)

University of Limerick staff or campus  
personnel

Others, please specify

<input checked="" type="checkbox"/>	Fit & healthy adults or athlete volunteers engaged in research projects granted ethical approval
<input type="checkbox"/>	

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

<input checked="" type="checkbox"/>	None, or minimal discomfort only
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In some trials, 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.

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**

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 **061-202534**
  - 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. If in PESS, 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>

If an emergency or incident occurs offsite, follow the local procedures for dealing with such an event. **Ensure you are aware of the offsite local safety procedures in the event of a foreseeable emergency.**

6

**Level of supervision required for procedure**

PESS lecturing or research staff, PESS teaching assistants

PESS postgraduate researcher

Others, please specify

Trained undergraduate or postgraduate student

7

**Other documentation required for this assessment ?**

PESS standard pre-test questionnaire

Participant Information sheet

Others, please specify

Participant Consent Form

For office use only

## PROCEDURES INVOLVING HUMAN SUBJECTS

Procedure No | SS\_011 |

Title of Procedure | 3D Motion Analysis |

Name of Assessor | Dr. Drew Harrison |

Assessment date | November 2018 |

End Date: December 2028

[TI] | Committee approval for experiment |

[KJ] | Granted |

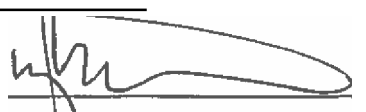
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Others, please specify \_\_\_\_\_,

\_\_\_\_\_ |

D | \_\_\_\_\_ |

Comments/conditions

Signed:   
\_\_\_\_\_  
(Head of Department)

Date 118.1...2