

UNIVERSITY OF LIMERICK EHS RESEARCH ETHICS COMMITTEE

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

Please provide a brief description of the procedure

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.

Raw video data can identify a participant. As part of GDPR compliance, participants will be fully informed and made aware that they are being videoed as part of the procedure. Participants must consent to being videoed as part of the procedure. Where raw video capture is being used for research, participants will be fully informed as to how long the data will be stored for, for what purposes it is being stored and who has access to the data.

Raw video capture will be stored on password protected computers until data analysis is complete. Raw video data will be deleted at the end of the project and the anonymised non-identifiable data will be retained.

Note: Online motion capture does not store raw video data, it only tracks marker trajectories and stores non-identifiable data.

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

2	Location in which the procedure may take place
<input checked="" type="checkbox"/>	PESS Teaching Laboratory (PG040)
<input checked="" type="checkbox"/>	PESS Research Laboratory (PG043)
Others, please specify	
<input checked="" type="checkbox"/>	Appropriate locations such as PESS sports halls
<input checked="" type="checkbox"/>	Track or playing fields

3	Eligibility of subject(s) to be used
<input checked="" type="checkbox"/>	PESS student (U.G. or P.G.)
<input checked="" type="checkbox"/>	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

4	Potential risks. To be explained <u>before</u> obtaining consent
<input checked="" type="checkbox"/>	Low Risk

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.

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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

- | | |
|------------------------|------------------------------------------------------------|
| x | PESS lecturing or research staff, PESS teaching assistants |
| x | PESS postgraduate researcher |
| Others, please specify | |
| x | Trained undergraduate or postgraduate student |

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Other documentation required for this assessment ?

- | | |
|------------------------|--------------------------------------|
| x | PESS standard pre-test questionnaire |
| x | Participant Information sheet |
| Others, please specify | |
| x | Participant Consent Form |
| | |

For office use only

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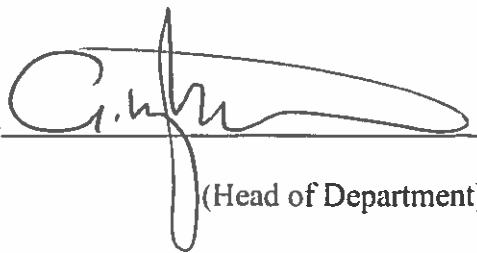
Name of Assessor

Assessment date

End Date: December 2028

Others, please specify

Comments/conditions

Signed 
(Head of Department)

Date 11/1/19