UNIVERSITY OF LIMERICK
OLLSCOIL LUIMNIGH

UNIVERSITY OF LIMERICK RESEARCH ETHICS COMMITTEE

RISK ASSESSMENT FORM – PROCEDURES INVOLVING HUMAN SUBJECTS

		Procedure No	**SS 011**
Title of Procedure	3D Motion 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: 2019_11_SS 011 _RA** **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 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 retroflective 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 proprietry 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 **Location in which the procedure may take place**

x	PESS Teaching Laboratory (PG040)
x	PESS Research Laboratory (PG043)

Others, please specify

x	Appropriate locations such as PESS sports halls
x	Track or playing fields

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

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

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 **061-20**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. 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

7	**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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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, plyse slecify

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Comments/conditions

Signedc• (Head of Department)

Date 118.1...2