

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

In this procedure physically fit and healthy adult subjects or athletes will be 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.

In this procedure, simultaneous 3D motion analysis can also take place, where the participant is videoed during the movement. In this case, the participant will be required to wear exercise clothing or swimming costumes so that anatomical landmarks can be easily identified and marked with retroreflective markers or tape. 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.

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

Note: Standard Operating Procedure for the AMTI Force platforms are available on the [PESS Sharepoint](#)

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

 Fit & healthy adults or athlete volunteers engaged in research projects granted ethical approval**4****Potential risks. To be explained before obtaining consent** Low Risk

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.

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.

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. 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>

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Level of supervision required for procedure

PESS lecturing, research staff and 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 014

Title of Procedure Force Plate Analysis (Vigorous Activity)

Name of Assessor Dr. Drew Harrison

Assessment date November
2018

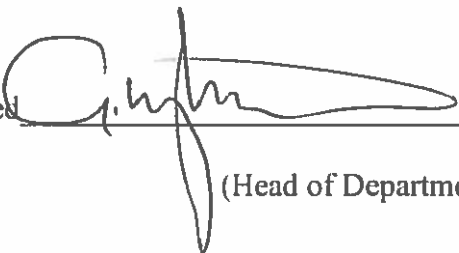
8

Committee approval for experiment

X	Granted

Others, please specify

Comments/conditions

Signed  (Head of Department)

Date 11/1/18