

9th Jan 2017

TO WHOM IT MAY CONCERN

Acceleration is a critical parameter when determining the severity of head impacts. The measurement of this has been relatively simple in helmeted sports (as there is room for sensors) but far more challenging in non-helmeted sports such as rugby. We currently are investigating head impacts in rugby. Our main research questions are:

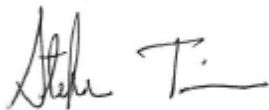
1. What is the frequency and severity of head impacts in amateur rugby?
2. What are the acceleration profiles (linear and rotational) of typical impacts? How do these compare to other sports?
3. How do these forces affect the brain (utilising a head simulation model)?

Comparing published concussion rates for 1000 match hours of play; the concussion rate in rugby is at least as bad as that in American Football. Therefore I think the measurement of the severity of impacts in rugby is crucial in any investigation and that it is only a matter of time before all players are wearing such devices.

Furthermore mouth-guard sensors will provide far more accurate results than any head band or skin mounted device; due to greater coupling of the movement of the skull and the sensor.

We are actively looking for a reliable device mouth-guard device for our research projects.

Sincerely yours,



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