



Dr. Juliana Usman

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Dr. Juliana Usman is a Senior Lecturer from the Department of Biomedical Engineering, University of Malaya. She graduated with a Bachelor of Biomedical Engineering degree and a Masters of Engineering Science from the University of Malaya. She received her doctorate degree from the University of New South Wales in 2012. Her area of interest is sports biomechanics specializing in injury prevention and performance enhancement. Her PhD work involved the investigation on the causes, contributing factors and prevention of shoulder injury risks in rugby union football. Dr. Juliana Usman was awarded the Best New Investigator Award in Injury Prevention from the Australian Federation Fellows Awards in 2010 for her research on investigating the tackle impact force during a rugby tackle. She has produced a number of scientific journals on rugby in BJSM and JSAMS. Currently she is active in several researches including the biomechanics of knee osteoarthritis – looking in the design and development of a low-cost knee brace and intervention, stress distribution in a dynamic loading knee using FEA, biomechanics of cricket bowling – analysis and injury prevention, shoulder loading in rugby tackle using FEA and several others. She is also a member of the Institute of Engineering and Technology (UK) and a certified chartered engineer from the Engineering Council of UK.