Assessing Lower Extremity Movement Quality

Technology #18-0003

Clinical assessment tools can provide a simple and efficient method for identifying problems in the musculoskeletal system that may result in athletic injury. Sports medicine clinicians can often use the results of such assessment tools to develop effective intervention programs for injury prevention and rehabilitation. This innovation provides an objective and autonomous system to classify lower extremity movement patterns, and allows for testing to take place in a field testing environment as opposed to a controlled laboratory setting. Athletes can perform simple jump-landing tasks as inputs to the process and are then provided with feedback as to how their movement patterns may be associated with lower extremity injury risk. Preventative measures or training can then be implemented.

Related Publications:

• Movement profile influences systemic stress and biomechanical resilience to high training load exposure.

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