Terminology and nomenclature in sport and exercise medicine

A skilled writer should be able to explain a complex topic to a reader who is not familiar with that topic. However, that is easier said than done as every branch of science embodies its own set of terms and words. Anyone working in a specialised area has to learn the set of terms associated with that topic, and use the appropriate terms and words to communicate with their colleagues. Failure to do so creates a barrier to entry; it makes it difficult to communicate and understand what others have said about the discipline. In the early phases of a new discipline, the terminology may be used slightly differently. However, as the discipline or area of research evolves, the words and definitions used to describe the nuances of that area become standardised. This reduces the risk of ambiguity and results in the communication on the specialised topic reaching a deeper level. With well-defined terminology, the results of studies can be compared and the knowledge in that area develops at a more rapid rate.

There are many examples in sport and exercise medicine research where this has happened. Consider cricket research, where the lack of consistent definitions for injury in the sport resulted in the research on injuries plateauing. The calculation of exposure to injury varied. The sticking point was that data from different studies could not be compared. This prompted collaboration between cricket authorities in Australia, the United Kingdom, South Africa, New Zealand, the West Indies, and India to standardize the nomenclature used in cricket research. This resulted in a paper, which was widely circulated. The consensus paper went into detail about the definitions for injury, injury recovery and injury recurrence in cricket. Factors associated with exposure calculations were discussed. The paper even had worked examples showing how exposure should be calculated and a check list of information that should be collected by an injury surveillance system. It is no surprise that the quality of research into injury surveillance in cricket has increased exponentially. The establishment of definitions and methodology, and reporting standards should be adopted more widely as this contributes to better quality research. This is something that the reviewers of papers submitted to the South African Journal of Sports Medicine are going to be asked to be vigilant about, so that we can make a positive contribution to the quality of the science in sport and exercise medicine.

The attempt to improve and define terms in sport and exercise medicine research continues. Recently a paper was published which focussed on athlete proficiency. This paper provided clear definitions for athlete proficiency so that athletes can be correctly ranked into categories, instead of being loosely described as "elite" or "high level". This refining of definitions will assist researchers around the world to describe their athletes similarly; a consequence will be better quality science.

An editorial has also drawn attention to the need for clear definitions and has proposed definitions for an "athlete", age group classifications (i.e. young athletes; 12-17 years old, adult athletes; 18-35 years old, and master athletes; 35-60 years old), and level of performance. The definitions they provide are crisp and clear and easily implementable.

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References

Mike Lambert
Editor-in-chief