COMMENTARY

COMMENTARY ON “OPPORTUNITIES TO INCLUDE PHYSICAL AND REHABILITATION MEDICINE IN THE MEDICAL SCHOOL CURRICULUM: INTERNATIONAL PERSPECTIVES”

The article by Gutenbrunner et al. (1) raises the important issue of introducing Physical and Rehabilitation Medicine (PRM) curricula into medical schools. In addressing this topic the authors provide a concrete example of a model that is very well accepted by medical students. Their citations and references reveal a series of publications from the last 3 decades that describe the importance of the development and implementation of PRM curricula in medical schools, especially in the USA, but also in other countries such as the UK, Australia and Croatia. A further search of the literature reveals information from other programmes developed in the USA (2–5), Iran (6) and France (7). Some published guidance and detailed recommendations for undergraduate curricula in PRM are already available (8–9).

A number of universities have introduced PRM concepts into undergraduate medical education, yet this is still not a standardized and conceptualized matter in terms of either the essential content or length of the programmes. There is an increasing need for specific rehabilitation concepts to be included in the medical curriculum. There is a progressive and exponential increase in the populations of elderly and disabled people (10, 11). People who now survive severe medical conditions, major trauma or disasters do so due to better overall medical care and are in need of rehabilitation expertise. Medical students often lack the basic knowledge and competence to assess the crucial needs of elderly patients that lead to risk of falls, e.g. gait, and to provide proper prescription of assistive devices (12).

In 2003 in Germany, the Federal Medical Licensing Regulations included Rehabilitation, Physical Medicine, and Naturopathic Treatment as a compulsory part of the medical curricula (13–14), as is also emphasized in Gutenbrunner et al.’s introduction. Other papers provide insights into the subject in Germany (9, 13–15). Major educational goals include the concepts of body function and structure, activity and participation associated with its impact on the individual, his or her family and environment, with an emphasis on the concepts of the International Classification of Functioning, Disability and Health (ICF), basic knowledge of human functioning and the functional consequences of diseases, which triggers the idea of a functional-outcomes-based approach (8, 9) as applied to any medical condition, but mainly to cerebral palsy, spinal cord injury, acquired brain injury, stroke, and disabling pain.

Appropriate assessment of body function and structure, activity and participation, followed by the rehabilitation approaches to be employed during the small window of opportunity for functional recovery, mandates for a specialized rehabilitation setting to minimize impairment and maximize function and quality of life in a whole-person patient-centred approach (7). The consequences of immobility and preventive measures should also be emphasized. Integration of a musculoskeletal assessment and rehabilitation education, including gait assessment and muscle testing, is also advised (4, 16).

Despite the challenge of incorporating PRM into a medical school curriculum, Gutenbrunner et al., describe an existing model which not only exposes medical students to PRM, but exposes them to PRM each and every year of their medical school training. The incorporation process was facilitated because the rules and implementation drill were provided by a regulatory body. However, even when this is not the case, Gutenbrunner et al.’s article provides insight into a paradigm shift that can be applied at the international level.

REFERENCES

15. Mau W, Kusak G. [Implementation of the new Federal Medical Licensing Regulations for doctors in the interdisciplinary subject “Rehabilitation, physical medicine, naturopathic treatment” by the German medical faculties]. Rehabilitation (Stuttg) 2005; 44: 129–133 (in German).

Submitted October 20, 2009; accepted January 27, 2010

Marta Imamura MD, PhD
Division of Physical Medicine and Rehabilitation, Department of Orthopaedics and Traumatology, University of São Paulo School of Medicine, São Paulo, Brazil. E-mail: marta@imf.org.br, martaimf@gmail.com