

# Editorial Note

Effective and efficiency of medical rehabilitation programs that fit for each patient with their unique problems is one of a significant challenge for all who involved in the rehabilitation field. In rehabilitation, management approach should individualize based, and the evaluation of each person must be holistic and comprehensively include an individualized assessment of physical, cognitive, emotional and social systems. Based on the fact that the inherent heterogeneity that accompanies the disease or condition will also influence the outcome of a rehabilitation program, a Rehabilomics framework is developing.

A Rehabilomics framework has been developing and showed its correlation across the multiple domains in the WHO-ICF Model of Complex Injury/Disease. This model was used by rehabilitation practitioner as a framework guides for rehabilitation management strategies clinically. Evaluating rehabilitation program based on individual genetic and molecular signatures make a personalized rehabilitation program care more become individualize and tailor-made for each patient. Rehabilomics based on Wagner proposed in her article is define as a novel framework from which refer to field of research that incorporates the systematic collection and study of rehabilitation-relevant phenotypes, in conjunction with a transdisciplinary evaluation of biomarkers, in order to better understand the biology, function, prognosis, complications, treatments, adaptation and recovery for person with disabilities. This personalizing biomolecular approach aimed to optimize own recovery, by analyzed all physiological, environment (epigenetics, dynamic gene modifiers, exercise or stress) and personal factors (genetic variation, biological susceptibility) that have influence and will make an impact to the condition and complications related to a complicated injury.

Doing and developing Rehabilomics studies in rehabilitation field hopefully can increase understanding of how individual cope to the rehabilitation problems based on biomarkers approach. It helps rehabilitation practitioners identify individual risk of the patient to get a complication and responsive to the rehabilitation program that has made. The Rehabilomics framework can enrich understanding of what works for whom and help determine under what circumstances the intervention produces maximum benefit or may not benefit from particular intervention in the clinical rehabilitation setting. More studies need to be done to develop this concept and translate it into the clinical setting. The result of the studies hopefully can identify appropriate markers of some pathology and recovery, that influence disease progression, symptom profiles, a recovery that related to a rehabilitation program that have made traditionally or conventionally.

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