Chapter XXXIII
Organization and Evaluation of Experimental Measurements of Ergophysiological Data with the Method of SF12V2

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ABSTRACT

Ergophysiology as a division of the Physiology and helps us today to understand what happens in the human body and movement and how we are able to create models and methodologies to understand these mechanisms especially when we recognize something different and or any disability. Focuses on the human Biokinetics and the ability of the human body to create movement with various mechanisms and methods. These mechanisms are Biological, Chemical and Physical mechanisms and is the most important part of the human body and life. There are many problems today existed from various internal or external conditions and parameters for the human movement. If we'll recognize these problems we will be able to create methodologies to work in to serious scientific directions to help these people. These problems sometimes are very big and very important for the daily person's life especially with the existence of various other pathological problems in to the modern environment. Many of these problems give us informations about the personal kinetic ability status of any person. With the application of this statistical method of SF12V2 we are able organize and select a lot of personal information from different persons and to recognize different problems in to their own daily life. There are a numerous of recognized similar problems today about the daily kinetics ability level in to different ages. We can recognize the personal health level and the kinetics ability of different persons with some statistical tools and methods.

One of these tools is the SF12V2 statistical method. This is a very important tool to organize the selected data from various individuals and to take informations about their health and kinetics ability level using simply ergophysiological research methodologies. This one helps us to recognize every parameter in to the personal daily life activities and work inside or outside their family life or in to their job.Asking people we can take much information about their kinetic ability and their health level. The importance of this method is that the SF12V2 tool helps us to organize the answers for any similar existed problem and also to organize the experimental measurements of other Ergophysilogical data. SF12V2 helps us to recognize problems in to any level age or to search for individuals with any personal disability or any kinetic problem. In this chapter we analyze the special and newest methods used from the SF12V2 tools as we worked in the last year in Greece to recognize different problems in to many individuals. This Statistical methodology is very simple but still with a lot of different applications such as the Ergophysiology and the different levels of health.

INTRODUCTION

Today the Mathematics Science created many different tools to organize different but similar selected data from any research and to search informations about different subjects. This method called statistics. Firstly in United States presented the SF36 as a statistical instrument to recognize the level of the public health.

The SF36 is a multipurpose, short-form health survey with only 36 questions. It yields an 8 scale profile of functional health and well-being scores as well as psychometrically – based physical and mental health summary measures and a preference-based health unity index. It is a generic measure, as opposed to one that targets a specific age, disease, or treatment group (Sevdali M. and Petropoulou M. 2004).

The SF12V2 is a reflected version 2.0 of the SF-36 is so a newest recognized statistical method which uses the questions to select data especially in to the field of the personal health. The SF12V2 is a part of the SF12 statistical method of searching informations with the method of organizing the answers of different questions.

In this chapter we present the applications of this statistical tool especially in to the field of the Ergophysiology and in to the division of the Experimental Ergophysiology measurements such as kinetics ability, flexibility etc (Drougas Ag. Bill 2001).

We are able to organize the questions of the SF12V2 using some of them to search data from Ergophysiological parameters such as Physical Functioning-PF, Role Physical –RP, Bodily Pain-BP, General Health-GH, Vitality-VT, Social Functioning-SF, Role Emotional-RE, Mental Health-MH, Physical Component Summary-PCS, Mental component summary –MCS and the ability of kinetics and physical activity.

In the Ergophysiology this is very important and represents the personal kinetics ability and adaptability of the human body (Drougas B. 2002)

BACKGROUND

The Sort Form - SF36 questions method is a statistical methodology to select scientific informations directly from the persons who are participated in to the research and firstly used in the United States of America between 1970's and 1980's for the adults health research. This method of analyzing different selected data is very useful in to many applications in the division of the public health.