EMOTIONS AS BRIDGE BETWEEN PSYCHE AND BODY

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Emotions are psychic phenomena that are experienced in the body. Therefore, emotions are considered the bridge between the psyche and the body.

There are a lot of explanatory models for understanding emotions, some of them are very specific, and some are general. The general integrative theory of emotions named "Circular emotional reaction" (CER) will be presented for better understanding of nature, dynamics, internal and external (transactional) functions of emotions (Milivojević 1993, 1999, 2007).

Some of the basic postulates of CER model are:

People feel emotions as reactions to stimuli that they subjectively perceive and understand as important. Therefore, the most useful way of thinking on emotions is to use syntagm "emotional reactions".

The basic function of an emotion is to prepare the body for adaptive activity. Latin word emotio consists of prefix e, and root movere, meaning "to put in the motion".

Emotional reactions are result of sequential and cascade processing of information. The CER model includes eight steps:

1. Objective situation \rightarrow 2. Perception of objective situation \rightarrow 3. Attribution of meaning to perceived situation \rightarrow 4. Attribution of value to inferred meaning \rightarrow 5. Emotional bodily reaction \rightarrow 6. Behavioral tendency \rightarrow 7. Thinking on adaptive reaction \rightarrow 8. Action \rightarrow 1. Effect on objective situation.

Described eight stage process can be conscious or unconscious. People can be aware only on some parts of this process.

Every emotional reaction is an attempt to obtain adaptation to important changes in given situation. Only adequate emotional reactions can fulfill that goal.

Standard classification of positive and negative emotions could be misleading. Therefore, we prefer use of terms unpleasant and pleasant emotional reactions. Both unpleasant and pleasant emotional reactions can be adequate and inadequate.

Three major points in CER model that are responsible for inadequate emotional reactions are atypical attribution of meaning to stimulus situation; atypical attribution of value to inferred meaning; and socially unacceptable expression of emotional reaction (action).

Inadequate emotional reactions have not adaptive value, and could be reasons for personal maladaptation and life problems.

Helping our clients and patients to fully reconstruct and understand CER for specific inadequate emotional reaction enables them to understand themselves and to relate to different parts of the process. When they accept responsibility for their emotional reaction they can change it.

The concept of emotional literacy and iliteracy is very important for clients and patients, as well for professional in the field of mental health. The better we understand emotional reactions and differentiate between them, we will have the better empathy and orientation in social world.

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BENEFITS NOT ONLY FOR THE BODY - EMPIRICAL RESULTS OF THE IMPACT OF SPORTS ON PSYCHIATRIC DISORDERS

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Schizophrenia is a severe brain disorder characterised by positive, negative, affective and cognitive symptoms and can be regarded as a disorder of impaired neural plasticity. This lecture focusses on the beneficial role of aerobic exercise in schizophrenia and its underlying mechanisms.

Apart from the established pharmacological treatments in schizophrenia, aerobic exercise has a profound impact on the plasticity of the brain of both rodents and humans such as inducing the proliferation and differentiation of neural progenitor cells of the hippocampus in mice and rats. Aerobic exercise enhances BDNF and leads to a better performance in hippocampus related memory tasks, eventually by increasing neurogenesis and synaptic plasticity related proteins in the hippocampus. In healthy humans, regular aerobic exercise increases hippocampal volume and seems to diminish processes of ageing like brain atrophy and cognitive decline.

Several meta-analyses demonstrate the beneficial effect of exercise on function, positive as well as negative symptoms and brain structure in multi-episode schizophrenia. New studies are under way providing insight in the intensity and duration of aerobic exercise training required for improvement in cognition and everyday functioning in patients with schizophrenia.

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IMPACT OF MAJOR SOCIAL FACTORS ON PSYCHIATRIC AND PHYSICAL MORBIDITY

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A reliable relation between the features of social environment on the one side and mental health or illness on the other is shown by the research of the last century. Nevertheless it is not yet completely clear how this relation works. Length and quality of life are influenced by four modifiable health factors: health behaviour, clinical care, social and economic factors and physical environment. Although the first two aspects are most discussed, the other two factors constitute the social determinants of health and seem to be more important than health behaviour and clinical care.

Healthy living is based on the last two factors, which affect mental und physical health directly. Concerning the way of influence further investigations are necessary. Severe mental illnesses and physical multimorbidity have also a negative impact on social factors. This multidirectional way may be mediated or also changed as an independent factor by concepts like network, social isolation and especially loneliness.

Loneliness is defined as a subjective feeling of the absence of social networks or a companion.

In literature on the one hand especially long term loneliness communicates with worse physical and mental health and also negative health behaviour, on the other hand it is triggered by bad social factors and also generates them through withdrawal and long term stress. Loneliness is connected with physical illnesses as cardiovascular problems, high blood pressure, hypercholesterolemia, lack of sleep, changes in the immune system, lower general health status and higher mortality. Lonely people's mental health is at risk in higher rates of psychosis, depression, suicide and Alzheimer's disease. Negative health behaviour causes alcohol abuse, smoking, obesity, low physical activity and low capacity of self-regulation. These results are aggravated by the evidence indicating, that social environment and loneliness may modify gene expression through epigenetic processes, which then manifest as psychological consequences. On average one third of European population is feeling lonely at least some time.

Conclusion: all policies in public health have to include the perspective of fighting loneliness and improving social environment. Good public health and long life expectancy are only achievable, if health and social policies and budgets are seen as connected. Some countries are already doing this with great success today.

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