

NEUROPROGRAM

What is it?

It is a medical protocol, based on genomic analysis within a multifactorial context, taking into account not only the balance between the different versions of some risk-related genes (genetic polymorphisms) present in each case but also the context in which these genes are being expressed which is determined by the influence of gene-gene interaction and gene-environmental factors.

This context has to be evaluated from the earliest stages prior to conception, through each week of pregnancy in correspondence to each moment of development, from birth until the moment we do the evaluation in consultation. In all these stages there has been a dynamic interaction between all these genetic variants among themselves and under the influence of each non-genetic factor (environmental factor). This influence has marked the way in which genes are expressed (by epigenetics) and our objective with the application of the NeuroProgram will be to find out as deeply as possible all these mechanisms in order to try to modify their expression in a way that achieves an improvement in the quality of global life.

Is it a diagnostic test?

It is NOT a diagnostic test; therefore, it does not confirm or exclude the diagnosis of suspicion. Its objective is to focus each action strategy (from medication to nutritional habits and the use of nutritional supplements) to the capacities or response potentials shown by each person.

What value does it have?

It allows a more individualized action plan because it will not be based on a global clinical diagnosis, but rather on the mechanisms that could be behind the symptoms and clinical manifestations that make up the history of each case.

In what cases would it be useful?

Its application would provide useful data to design supportive strategies that might be complementary to the specific therapies available in:

- Autism Spectrum Disorder (ASD)
- Attention deficit disorders with / without hyperactivity (AD / HD)
- Generalized developmental disorders (PDD)
- Learning problems
- Cerebral palsy
- Epilepsies (including epilepsies refractory to treatment)
- Sleep disorders
- Problems of the development of the nervous system in general (previous evaluation in consultation)

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