Neurodegenerative disorders are chronic and progressive diseases caused by genetic and environmental factors. The clinical manifestations are dependent on the affected area on the Central Nervous System. Several etiologic factors which include encephalic metabolic derangements, central insulin resistance, oxidative stress, inflammatory process, prions and xenobiotics are involved. Besides these factors, gene mutations are related to Alzheimer disease; Parkinson disease, amyotrophic lateral sclerosis and muscular-spinal atrophy have been found. In Huntington disease, cerebellar-spinal ataxias, Friedreich is ataxia and muscular-spinal-bulbar atrophy, excessive repeats of 3 to 5 nucleotides fragments have been detected. These neurological disorders have in common production and accumulation of aberrant proteins with abnormal metabolism, which conduce to selective neuronal death probably by apoptosis.

Keywords