

ABSTRACT

Sex chromosome aneuploidies are the most common chromosomal abnormalities. Common manifestations of gonosomal aneuploidies include mental and social developmental delays, reduced or complete infertility, and delayed or improper development of secondary sexual characteristics.

Genetic syndromes diagnosed based on the discovery of gonosomal aneuploidies are often associated with mental health disorders and neuropsychiatric diseases. Gonosomal aneuploidies may influence the occurrence of psychiatric disorders.

This Bachelor's thesis explores the current available knowledge about the connection between neuropsychiatric disorders and gonosomal aneuploidies, which are genetic anomalies related to abnormalities in the number of sex chromosomes. The focus is primarily on Klinefelter syndrome and Turner syndrome. The aim of this thesis is to summarize the existing scientific findings on how these genetic anomalies affect the occurrence of mental health disorders, such as depression, attention deficit hyperactivity disorder (ADHD), schizophrenia, and autism spectrum disorders.