DNA methylation of membrane-bound catechol-O-methyltransferase in Malaysian schizophrenia patients

Abd Rahim Nour El Huda MBBS, MMDS, Ku Zafiah Norsidah MBBS, MMDS, PhD, Mohd Rahim Nabil Fikri BBiomedSc, MMDS, ... See all authors


Abstract

Aim

This study examined catechol-O-methyltransferase (COMT) DNA methylation in the peripheral blood of schizophrenia patients and also in healthy controls to investigate its potential use as a peripheral biomarker of schizophrenia and its relations with the clinical variables of schizophrenia patients.

Methods

We examined the DNA methylation levels of COMT using genomic DNA from the peripheral blood of schizophrenia patients (n = 138) and healthy control participants (n = 132); all were Malaysian Malays. The extracted DNA was bisulfite converted, and the