

شبكة المعلومات الجامعية







شبكة المعلومات الجامعية التوثيق الالكتروني والميكروفيلم



شبكة المعلومات الجامعية

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NEUROPSYCHOLOGICAL FUNCTIONING IN EUTHYMIC ADOLESCENT PATIENTS WITH BIPOLAR DISORDER

Thesis

Submitted in partial fulfillment of master degree in

Psychiatry and Neurology

Cr. V &

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جامعه القاهره / هنيه الصنب الدراسات العليا

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ABSTRACT

Background: Wide ranging neuropsychological deficits have been found in the cuthymic phase of bipolar disorder in both adult and adolescent patients in several studies.

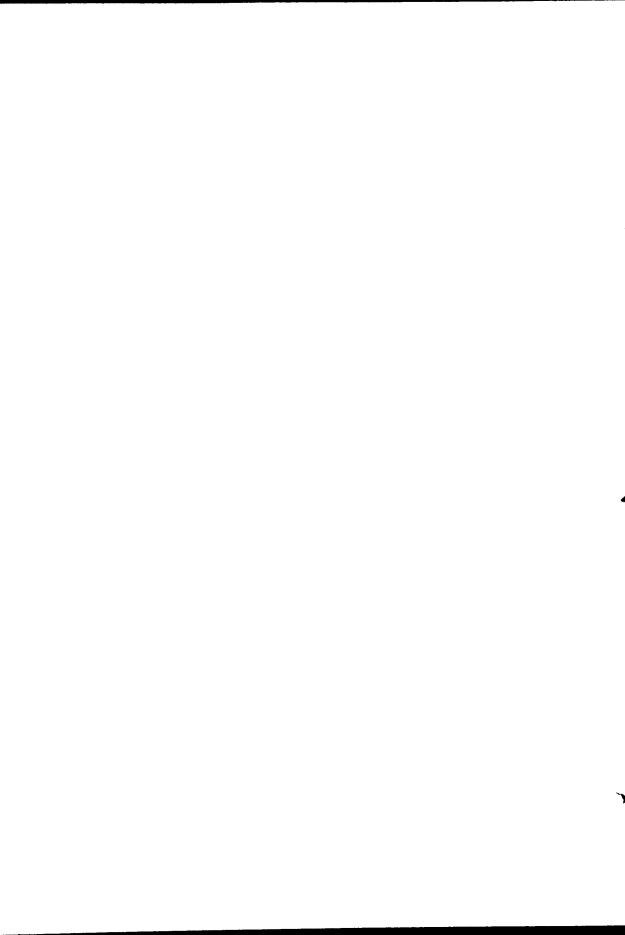
Aim: To assess sustained attention, auditory and visual short term memory, mental processing speed and set shifting abilities in adolescent patients with bipolar disorder, type I in the euthymic phase.

Method: Thirty adolescent patients with bipolar disorder, between ages 13-19 yrs. of both sexes, were recruited fom Kasr el Eini psychiatric outpatient clinic and the diagnosis of bipolar disorder was ensured and exclusion of other psychiatric comorbidities was done using the K-SADS-PL. Euthymia was defined as scores 7 or below on both the HDRS and YMRS.A control group matched in age, sex and educational level was recruited and both cases and controls were subjected to the letter cancellation test, digit span and digit symbol subtests of the Arabic version of Weehsler intelligence scale, bender gestalt test and Wisconsin card sorting test.

Results: The patients included in the study showed poorer performance than the controls in all the neuropsychological tests applied, with a statistically significant difference between the mean scores of the groups. The number of manic episodes and the age of illness onset was positively correlated to the mean number of omission errors in the letter cancellation test. Female patients showed a statistically significant better performance than male patients in the digit symbol coding test, but there were no significant gender differences in the scores of the other tools applied.

Conclusion: There are neuropsychological deficits in the areas of sustained attention, set shifting, processing speed and visual and auditory short term memory in euthymic adolescent patients with bipolar disorder, type I. There is a significant correlation between the number of manic episodes as well as age of illness onset and sustained attention. The female patients in our study have a faster mental processing speed than male patients. The presence of the above mentioned neuropsychological deficits in the euthymic phase of bipolar disorder in adolescent patients with few number of episodes and short duration of illness may represent a possible trait marker of the illness, though more research in this area is needed to establish whether these deficits represent stable trait markers or not.

Keywords: Bipolar disorder, neuropsychological functions, euthymia



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LIST OF ABBREVIATIONS

(1H) MRS Proton magnetic resonance spectroscopy

11C-SCH2330 PET Methionine positron emission tomography

31P MRS: Phosphorous magnetic resonance spectroscopy

5HT T 11 Long variant of serotonin transporter

5HT T Serotonin transporter

5HT Tss Short variant of serotonin trransporter

5HT Serotonin

ATP

5HT1A 5-beta hydroxytryptamine receptor 1

AACAP American Academy of Child and Adolescent Psychiatry.

APA American Psychiatric Association

APT Attention process training

Adenosine triphosphate ACC Anterior cingulate cortex

ADHD Attention deficit hyperactivity disorder.

BAS Behavioral approach system

BADS Behavioural Assessment of the Dysexecutive Syndrome

BD Bipolar Disorder

BORB Birmingham Object recognition battery

BOLD blood-oxygen level dependent

BDNF Brain Derived Neurotrophic factor

CVLT California verbal learning test

CANTAB-ID-ED Cambridge automated neuropsychological testing battery

intradimensionsional/extadimensional

COMT Catechol O methyl transferase

Cho Choline containing compounds

CFH Cognitive flexibility hypertext

CFT Cognitive flexibility theory

CT Computed XRay tomography

CPT-IP Continuous performance task-identical pairs version

CPT Continuous performance test

CrCreatine

DAOA D- amino acid oxidase activator

DAO D-amino acid oxidase DSM III : Diagnostic and Statistical manual of mental disorders-3rd edition

DSM IV-TR : Diagnostic and Statistical manual of mental disorders-4th edition-

text revised

DISC-1 : Disrupted in Schizophrenia 1

DLPFC : Dorsolateral prefrontal cortex.

ECT : Electroconvulsive therapy

EE : Expressed emotions

FDA : Food and Drug Administration

fMRI : Functional magnetic resonance imaging

GABA: Gamma-aminobutyric acid

HDRS: Hamilton depression rating scale

IF : Inference

10 : intelligence quotient

IM : Intramuscular

JBD : Juvenile bipolar disorder

LD : Linkage disequilibrium

LIP : Lateral intraparietal area

LNNB : Luria-Nebraska Neuropsychological Battery.

MR : Magnetic resonance

MRI : Magnetic resonance imaging

MRS : Magnetic resonance spectroscopy

MSP : Most severe past episodes

Ino : Myo-inositol

NAA : N- acetyl aspartate

NP-BD : Non psychotic bipolar disorder

PIO : Performance intelligence quotient.

PCr : Phosphocreatine

PDE : Phosphodiesters

PME : Phosphomonoesters

PET : Positron emission tomography

PFC: Prefrontal cortex

proBDNF : Pro brain derived neurotrophic factor

PALPA: Psycholinguistic assessment of language processing in adult

acquired aphasia

RRP : Readily Releasable Pool