

بسم الله الرحمن الرحيم





شبكة المعلومات الجامعية التوثيق الالكتروني والميكروفيلم



جامعة عين شمس

التوثيق الإلكتروني والميكرو فيلم

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Cognitive Dysfunction in PTSD: Cross Sectional Descriptive Study in Recent Trauma Survivors in Egypt

Thesis

*Submitted for Partial Fulfillment of
Medical Doctorate Degree in Psychiatry*

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بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

قَالَ

لَسْبَّحَانَكَ لَا يَعْلمُ لَنَا
إِلَّا مَا عَلَّمْتَنَا إِنَّكَ أَنْتَ
الْعَلِيمُ الْعَظِيمُ

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ABSTRACT

Posttraumatic stress disorder (PTSD) is a psychiatric syndrome that develops after exposure to terrifying and life-threatening events including warfare, motor-vehicle accidents, physical and sexual assault. It is characterized by intense reliving of the traumatic event through disruptive memories and nightmares, avoidance of reminders of the event, and hyper-vigilance toward potential threats in the environment. For most, the trauma is acute and transient and results in minimal functional impairment.

PTSD is characterized by affective and cognitive dysfunction. In later a long time, considerable proof from functional neuro-imaging has indicated that disruptions in prefrontal, limbic and interactive brain function may underlie the disorder.

PTSD has been connected to wide neuropsychological deficits over numerous domains. Many studies of PTSD have found that lower pre-morbid cognitive capacity may be a risk issue for the consequent advancement of the disorder.

Preservative behaviors are a common clinical marker of Executive functioning dysfunction. Perseveration concerning aspects of the trauma may be an important and basic contributing factor within the advancement and support of PTSD.

In spite of the fact that presentation to stressful and traumatic occasions is very common solely a little proportion of people in the long run, develop vital posttraumatic adjustment difficulties or PTSD.

The cognition affection is characterized by a variety of cognitive deficits that can start in infancy through youth, counting developmental delays in language and intellectual functioning, executive functioning, and attention.

Maltreated patients have been found to encounter incredible shortfalls in executive functioning skills as compared to non-maltreated controls.

Moreover, cognitions associated with the traumatic encounters may be thought-about inside this domain, counting attributions of fault, that are found to be related with more regrettable results of depression and PTSD.

The study outcomes for post-traumatic stress disorder in sample of Egyptian patients recently survived from trauma and there effect on cognitive functions.

We hypothesized that the presence of traumatic events may precipitate post traumatic disorder which may aggravate cognitive dysfunction in sample of Egyptian patients recently survived from trauma.

Keywords: Cognitive Dysfunction in PTSD: Cross Sectional Descriptive Study in Recent Trauma Survivors in Egypt

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List of Abbreviations

Abb.	Full term
5HT receptors	<i>Serotonin receptor</i>
5-HTTLPR	<i>Hydroxytryptamine-transporter-linked polymorphic Region</i>
ASD	<i>Acute Stress Disorder</i>
AD	<i>Adjustment Disorder</i>
AF	<i>Arcuate fasciculus</i>
ANOVA	<i>Analysis of variance tests</i>
AO	<i>Adult-Onset</i>
APA	<i>American psychiatry association</i>
ARMS	<i>A risk mental state</i>
ATR	<i>Anterior thalamic radiation</i>
ANKK1	<i>Ankyrin repeat and Kinase domain containing 1</i>
BDNF	<i>Brain-derived neurotropic factor</i>
BNF	<i>British National Formulary</i>
CNR1	<i>A gene on chromosome 6q14-q15 that encodes one of two cannabinoid receptors,</i>
CBT	<i>Cognitive behavioral therapy</i>
CCEPs	<i>Cortico-cortical evoked potentials</i>
CD	<i>Cluster of differentiation</i>
CGH	<i>Cingulum hippocampus</i>
CGI	<i>Clinical Global Impression</i>
CNS	<i>Central nervous system</i>
COMT gene	<i>Catechol-O-methyltransferase</i>
DRD2	<i>Dopamine Receptor 2</i>
DA	<i>Dopamine Agonist Receptor</i>
DLPFC	<i>Dorsolateral prefrontal cortex</i>
DSM I	<i>Diagnostic and Statistical Manual of Mental Disorders, first edition</i>
DSM II	<i>Diagnostic and Statistical Manual of Mental Disorders, second edition</i>

DSM III*Diagnostic and Statistical Manual of
Mental Disorders, third edition*

List of Abbreviations cont...

Abb.	Full term
DSM VI	<i>Diagnostic and Statistical Manual of Mental Disorders, fourth edition</i>
DSM-5	<i>Diagnostic and Statistical Manual of Mental Disorders, fifth edition</i>
DBH	<i>Dopamine Beta-Hydroxylase</i>
EE	<i>Emotion Expression</i>
EEG	<i>Electroencephalogram</i>
EPI	<i>Echo Planar Imaging</i>
ERT	<i>Emotion Recognition Task</i>
F-DOPA	<i>Fluoro-dopamine (fluoro-phenylalanine)</i>
FH	<i>Family history</i>
FMRI	<i>Functional MRI</i>
FKBP5	<i>FK506 binding protein of 12 kDa</i>
G^xE	<i>Gene verses Environment Eposure</i>
GABA	<i>Gamma-amino-butyric-acid</i>
GAD	<i>Generalized anxiety disorder</i>
GAD	<i>Glutamic acid decarboxylase</i>
GAF	<i>Global Assessment Function</i>
GABRA2	<i>GABA transporter</i>
GCCR	<i>Gene Encoding Glucocorticoid</i>
GRD	<i>Genetic risk and deterioration syndrome</i>
GWAS	<i>Genome-wide association study</i>
HPA	<i>Hypothalamic-Pituitary-Adrenal</i>
HS	<i>Hippocampal sclerosis</i>
IFOF	<i>Inferior fronto-occipital fasciculus</i>
IL	<i>Interleukin</i>
IQ	<i>Intelligence quotient</i>
KYNA	<i>Kynurenic acid</i>
MD	<i>Mean Diffusivity</i>
MHC	<i>Major Histocompatibility Complex</i>

MNI.....*Standard Montreal Neurological Institute*
MRI.....*Magnetic resonance imaging*

List of Abbreviations *cont...*

Abb.	Full term
MRS	<i>Magnetic resonance spectroscopy</i>
MS	<i>Multiple sclerosis</i>
NAMI	<i>National Alliance on Mental Illness</i>
NAPLS	<i>North American Prodrome Longitudinal Study</i>
NART	<i>National reading test</i>
NCCMH	<i>National Collaborating Centre for Mental Health</i>
NCCT	<i>Sodium-chloride symporter (<u>N</u>a⁺-<u>C</u>l⁻ co-transporter)</i>
NEα1	<i>Noradrenergic alpha 1</i>
NHS	<i>National Health Service</i>
NICE	<i>National Institute for Health and Clinical Excellence</i>
NPY	<i>Neuropeptide Y</i>
NLLS	<i>Non-linear Least Squares</i>
NMDAr	<i>N-methyl-Daspartate receptor</i>
NMDAR	<i>N-methyl-d-aspartic acid receptor</i>
NO	<i>Nitric oxide</i>
NOX2	<i>NADPH oxidase pathway</i>
NRG-1	<i>Neuregulin 1</i>
OASIS	<i>Outreach and support in South London</i>
OCD	<i>Obsessive compulsive disorder</i>
OLS	<i>Ordinary Least Squares</i>
OR	<i>Odds ratio</i>
PCR	<i>Polymerase chain reaction</i>
PET	<i>Positron emission tomography</i>
PROPELLER	<i>Periodically rotated overlapping parallel lines with enhanced reconstruction</i>
PTSD	<i>Post-traumatic stress disorder</i>
PUFAs	<i>Polyunsaturated fatty acids</i>