

# بسم الله الرحمن الرحيم



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شبكة المعلومات الجامعية التوثيق الالكتروني والميكروفيلم





# جامعة عين شمس

التوثيق الإلكتروني والميكروفيلم

## قسم

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بالرسالة صفحات لم ترد بالأصل





#### Association between Problematic Gaming and Internet Addiction and Adult ADHD among Female University Students

#### Thesis

Submitted for Partial Fulfillment of Master Degree in Neuropsychiatry

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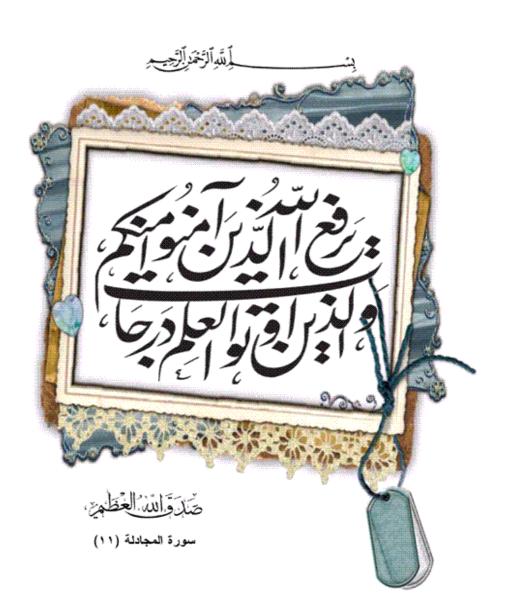
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### Acknowledgment

First and foremost, I feel always indebted to ALLAH, the Most Kind and Most Merciful.

I'd like to express my respectful thanks and profound gratitude to **Prof. Mona Mahmoud El Sheikh**, Professor of Psychiatry Faculty of Medicine, Ain Shams University for her keen guidance, kind supervision, valuable advice and continuous encouragement, which made possible the completion of this work.

I am also delighted to express my deepest gratitude and thanks to Assist. Prof. Hussien Ahmed Elkholy, Assistant Professor of Psychiatry Faculty of Medicine, Ain Shams University, for his kind care, continuous supervision, valuable instructions, constant help and great assistance throughout this work.

I am deeply thankful to **Dr. Zeinab Mohamed**Ahmed Ali, Lecturer of Psychiatry Faculty of Medicine,

Ain Shams University, for her great help, active participation and guidance.

Mennat-Allah Magdy

#### **ABSTRACT**

**Background:** Attention Deficit Hyperactivity Disorder (ADHD) has been linked to illegal substance use at a younger age, when not treated with medication or stimulant therapy and demonstrate problem in behavior with different forms of interactive media. There is some emerging evidence suggesting that children and adolescents with ADHD exhibit more problematic video game behaviors and internet addiction behavior compared to typically developing children. The majority of studies so far have focused on children and adolescents. However, problematic video game use and internet addiction also common among adults.

**Aim of work:** Assessing the relationship between problematic gaming and internet addiction and adult ADHD among female university students.

Patients and methods: This is a Cross sectional analytical study conducted in Ain Shams University during the academic year 2018-2019, All data were collected from 450 Ain Shams University female students. From randomly selected 4 different faculties (2 theoretical & 2 practical faculties), 50 students were excluded as they didn't complete all the questionnaire. The sample size is 400 (100 from each faculty) students were screened for pattern of internet use, internet addiction, problematic gaming and adult ADHD.

**Results:** A total of 400 questionnaires were completed by the students of Ain Shams University. only 107 (26.7%) students were diagnosed with internet addiction, 89 students (22.3%) of students were diagnosed with internet gaming disorder, 54 students (13.5%) were diagnosed with gaming addiction and 299 students (74.7%) were diagnosed with moderate and severe compulsive internet use. Also, a highly significant association found between adult ADHD and internet addiction, but no significant association with internet and gaming addiction and adult ADHD.

**Conclusion:** Internet addiction is more prevalent between females than gaming disorder, also, females with adult ADHD are more prone to develop internet addictions than normal.

Intervention studies are needed for management of both internet addiction and adult ADHD e.g. pharmacological treatment, group therapy, cognitive behavioral therapy and family therapy. Also, interventional studies for treatment of the comorbid internet addiction and adult ADHD.

**Key words:** ADHD, internet, gaming, addiction.

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### List of Abbreviations

Abb.	Full term
ADHD	Attention Deficit Hyperactivity Disorder.
	American Psychiatric Association.
	Autism Spectrum Disorder.
	Adult ADHD Self Reporting Scale.
	Bipolar Spectrum Disorder.
	Compulsive Internet Disorder.
DSM-5	Diagnostic and Statistical Manual of Mental Disorder- Fifth edition.
DTI	Diffusion Tensor Imaging.
EEG	Electroencephalogram.
f-MRI	Functional Magnetic Resonant Imaging.
IA	Internet Addiction.
IGD	Internet Gaming Disorder.
IS	Information System.
IUD	Internet Use Disorder.
IVGA	Internet Video Gaming Addiction.
NCS-R	National-Comorbidity Survey Replication.
RS-FMRI	Resting State Functional MRI.
WHO	The World Health Organization



### Introduction

ddiction is a medical condition that can be thought that it is disease or biological process leading to certain behaviors. These behaviors are characterized by compulsive rewarding in stimuli, despite engagement consequences. The two properties that characterize all addictive stimuli are that they are reinforcing and intrinsically rewarding. It. (Raouf, 2016).

Behavioral addiction refers to frequent behavior that goes beyond the normal frequency and increasingly creates dependence of obsessive mental disorder in bio-chemical state, person's nervous system, that affect his personal life. This most frequent behavior reveals in activities such as love, gambling, food, sex, work, shopping, computer games, sports, the Internet and mobile phones (Raouf, 2016).

**Digital** gaming is increasingly conventional an entertainment activity found among adolescents and youth in general. Unfortunately, scientific findings indicate that some digital game players display dysfunctional, dependency-like features which resemble addictive behaviors (Király et al., 2015).

Early stage empirical research was done on negative digital gaming outcomes of have conceptualized phenomenon in the framework of impulse-control disorder or behavioral addiction, and the criteria from the pathological