# Relationship between Feeling of Burden and Psychological Capital among Caregivers of Children with Attention Deficit Hyperactivity Disorder

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**Background:** Caregivers of children with ADHD often experience stress and anxiety because of increasing demands of the child condition. These challenges contribute to a heavy feeling of burden and reduce psychological capital of them. As a result, their psychological capital may decline over time. Aim: This study aimed to assess relationship between feeling of burden and psychological capital among caregivers of children with attention deficit hyperactivity disorder. Research design: A descriptive correlational research design was utilized to achieve the aim of the study. Setting: The study was conducted at the children outpatient clinics at Psychiatric and Mental Health Hospital and Addiction Treatment at Benha city, Qalubia governorate which is affiliated to General Secretariat of mental health. Subject: A purposive sample of (\(\gamma\)) caregivers of children with ADHD was utilized in this study. **Tools:** Three tools were used for data collection: Tool (1): - A- structured interviewing questionnaire sheet included socio- demographic data of studied caregivers, socio- demographic and clinical data of the affected children as well as caregivers' knowledge about ADHD. Tool (7):- Zarit burden interview scale & Tool ("):- Psychological capital questionnaire. Results: The result of the present study revealed that one quarter of the studied caregivers who have satisfactory level of total knowledge about ADHD and more than half of the studied caregivers experience moderate burden. Also, the minority of the studied caregivers have high level of psychological capital. Conclusion: there is highly statistically significant negative correlation between total burden and total knowledge and total psychological capital mean scores among caregivers of children with ADHD Recommendations: psycho-educational nursing programs should be applied as an immediate measure for all caregivers of children with ADHD in all hospitals to improve their psychological capital and hence reduce their feeling of burden.

Key words: ADHD, Burden, Caregivers, Psychological capital.

#### **Introduction:**

Attention deficit hyperactivity disorder (ADHD) is a very common childhood-onset psychiatric condition of which the rates have risen over the past few decades a nd continue to raise. ADHD is characterized by pervasive, persistent and impairing symptoms impulsivity / hyperactivity and/or inattention that occur before the age of seven year with the possibility of extending into adult life. ADHD has three subtypes which include the inattentive subtype, the hyperactive/impulsive subtype and the combined subtype (Alnakhli et al., ۲۰۲۰).

Children with ADHD are emotionally unstable, more sensitive, distressed easily and experience difficulties in maintaining attention or controlling their physical energy or movement and it is difficult for them to remain confined to a place and not to touch things, which might infect them. This disorder not only would affect the child, but it would also affect the comprehensive and wide system of the family, as caregivers of children with ADHD would experience more increasing family burden, decreasing family functioning and low quality of life (Samanta et al., ۲۰۲۲).

Children with ADHD put the family caregivers in a dilemma regarding burden of the management of the children and handling their psychological wellbeing. Burden is a negative physical and psychological state induced among caregivers due to demands of providing care to a person with an illness or disability. ADHD places a significant burden on caregivers, economically as well as socially physically, and emotionally. Moreover, parents of children diagnosed with ADHD are more likely to present with marital problems (Peñuelas-Calvo et al., Y.Y).

Caregivers can be affected by the disease especially on the quality of life and more likely develop psychological, social and physical problems and increased levels of distress, decreased parenting esteem and feelings of parental incompetence which can affect their psychological capital. Psychological capital is a set of positive psychological resources that can be developed and managed to improve performance and success and it can be improved through efforts and learning (Sarwar et al., Y.YY).

Psychological capital include four different resources which include Self efficacy which is the confidence to put in considerable effort to succeed at challenging task, Hope which commonly associated with positive expectancy towards the future, Resilience which considered the individual's capability to successfully cope with adverse circumstances, uncertainty and conflict and Optimism which is the cognitive process directed at positive outcomes or expectancies of a bright and prosperous future (Walter & Liran, Y. YY).

Developing positive psychological capital will serve as protection against the potentially deleterious impact of negative effect of ADHD and consequently facilitate mental health of children and their caregivers. The beneficial role of psychological capital on children with ADHD include that the children will be expected to achieve good grades in academic

tasks, similar to the expectation of performing well and may be more likely to believe they can succeed in daily life (self-efficacy and optimism), find out solutions (hope), and bounce back quickly in stressful events (resilience). Moreover, psychological capital has a positive effect on caregivers of ADHD children as it can gives rise to positive mental and psychological state and can be beneficial for caregivers that may play a more influential and functional role in enhancing the parents well-being (Wang et al., Y.YY).

Psychiatric and mental health nurse plays an important role in using effective nursing interventions and supportive psychoeducational programs to decrease feeling of burden and improve psychological capital among caregivers of children with ADHD. The psychiatric and mental health nurse should educate caregivers about new ways to reduce their children's hyperactivity, increasing their engaging them in more attention and meaningful activities to reduce inappropriate behaviors to improve the parent-child relation and reduce parental burden and stress level (Liaquat et al., ۲۰۲۳).

Psychiatric and mental health nurse should educate parents to find their strengths and weaknesses, deal with existing problems more effectively and have a more positive feeling about their relation with their children and creating a commitment to long-term treatments for chronic disease. Furthermore, the psychiatric and mental health nurse should helping parents to identify the most accessible places with little costs who are specialized that give effective care for children and the proficient teachers who are specialized in dealing with those children which can in turn decrease the economic burden on caregivers of children with ADHD (Aliye et al., Y.Y).

#### Significance of the study:

ADHD considered the most prevalent psychiatric disorders and the second most common chronic illness in children. The

of prevalence rate ADHD worldwide estimated to be about Y.Y. (179 million) children aged between o to 19 years. In United States of America the prevalence rate of ADHD among children aged between Y-YY years estimated to be about  $^{\lambda,\xi}$ / (°. \( \frac{\x}{2}\) millon children). While in Arab countries varies considerably between 1.7% to 17% and studies conducted in Africa reported prevalence of ADHD which ranges between o.£% to A.V% among school children and \.o'/, in the general population. In Egypt, the prevalence of ADHD according to a study conducted on a sample of school children was Y., 9 % among the studied sample. Another study conducted in Egypt revealed a higher prevalence rate of 9.7% among preschoolers (Abd Elmassehh et al., Y.YT&Aliye et al., Y.YT).

ADHD often persists into adulthood if not managed well and it considered a risk factor for other mental disorders as conduct disorders, oppositional defiant disorder, anxiety disorders and depression. ADHD may lead to undesirable outcomes for children underachievement. including educational difficulties employment with interpersonal relations and can also increase burden on children's caregivers and increase their psychological distress which in turn can decrease their psychological capital (Younis et al., ۲۰۲۳).

Several studies had reported higher levels of burden among caregivers of children with ADHD which include a study done in Hyderabad and found that the burden of caregiving was found in (° \( \frac{1}{2} \). \( \frac{1}{2} \) of caregivers of ADHD children. In addition to that, another study had been conducted at Benha city, Egypt and found that more than two thirds of caregivers of children with ADHD had moderate to severe burden of care and psychological distress (Liaquat, \( \frac{1}{2} \). \( \frac{1}{2} \) & Abd El Massehh et al., \( \frac{1}{2} \).

#### Aim of the study:

The aim of this study was to assess the relationship between feeling of burden and psychological capital among caregivers of children with attention deficit hyperactivity disorder

#### Research design: -

A descriptive research design was utilized to achieve the aim of the study.

#### Research setting: -

This study was conducted at the children outpatient clinics at Psychiatric and Mental Health Hospital and Addiction Treatment at Benha city, Qalubia governorate which is affiliated to General Secretariat of mental health. Children outpatient clinics are working from ( $^{9}$  Am to  $^{7}$  Pm)  $^{7}$  days/week except Friday and holidays and specified  $^{7}$  days (Monday and Thursday) for examination and following up the children with ADHD.

#### Research subject:-

-A purposive sample of (\(\frac{1}{\cdot}\)) caregivers of children with ADHD were attended at the above-mentioned setting. The sample size calculated by using the following formula:

$$n = \frac{N \times p(1-p)}{\left[N-1 \times \left(d^2 \div z^2\right)\right] + p(1-p)}$$

(Thompson, Y. 17).

#### Tools of data collection:-

In order to fulfill the aim of the study, the data was collected by using the following tools.

# Tool (1): - A Structured Interviewing Questionnaire Sheet:

The questionnaire was developed by the researcher based on scientific review of literature and consists of three parts:

Part (1): Socio- demographic data of the studied caregivers such as degree of relation, age, marital status, level of education, residence, occupation, number of family members and family income.

Part (Y): Socio- demographic and clinical data of the affected children: -

A- Socio- demographic of the studied children such as age, sex, educational level of education, type of school that the child attend and child birth order)

B- Clinical data of the affected children such as subtype of ADHD, family history, number of sleep hours, type of treatment, number of treatment sessions and sourceof health services).

Part (\*): caregivers' knowledge about ADHD definition, causes, such as symptoms, diagnosis, treatment of ADHD, medication, behavior therapy and ways for dealing with the child.

#### Tool (7): Zarit burden interview scale:

This scale was originally developed by Zarit et al., (1940). It is the most commonly used scale for assessment the level of burden among caregivers of children with ADHD. It consists of YY items which rated on a three point likert scale ranging from '=never, '= sometimes and  $\Upsilon$  = always.

#### **Scoring system:**

from ( • to 55), with higher scores indicating greater and internet were used to get a clear picture of burden

- No burden if scores (•- )
- Mild burden if scores (\\-\-\)
- Moderate burden if scores (۲۱-۳۰)
- Severe burden if scores  $(7^{1-\xi\xi})$ .

#### Tool **(٣): Psychological** capital questionnaire (PCQ): -

The scale was originally developed by Luthans et al.  $(\forall \cdot \cdot \lor)$ . It is the most commonly used scale for assessment of psychological capital. It consists of Y items that divided into four subscales which measure four main categories (hope, self-efficacy, resilience and optimism). Each of the four subscales has 7 items which assessed on a 7point scale ranging from '= disagree, '= somewhat agree and  $\Upsilon$ = strongly agree. There 

### **Scoring system:**

The total scores of psychological capital questionaire ranged from (Y to YY) with higher scores indicated higher level of psychological capital. To get the total score of the scale the researcher firstly, reversed of scores of the three items (\rm, \rm, \rm, & \rm, \rm) and then each scale item was graded and then added together to give total score.

#### **Scoring system indicated the following:**

- Low if scores (< o·/.) Y \(\xi -< \gamma\) grades
- Moderate if scores (o'-< Yo'/.) ٣٦ -< o'\xi grades
- High if scores (>  $\forall \circ \%$ )  $\circ \xi \forall \forall$  grades

#### Methods of study

#### Field work:-

The present study was conducted in four phases.

#### \- Preparatory phase:-

This phase was the first of the thesis, it included reviewing of past, current, local, and international relevant literature and different studies related to the topic of research. Item scores are added up to give a total score ranging Textbooks, articles, magazines, periodicals all aspects related to the research topic. This helped the researcher to be acquainted with magnitude and seriousness of the problem and guided the researcher to prepare the required data collection tools.

### **Content validity of the tools:**

- Arabic translation was done by researcher for psychological capital questionaire and tested for their translation.
- Modifications were made in the style and paraphrasing of questions that measure caregivers' knowledge about ADHD. These modifications were made with the objective of its accuracy and consistency.
- The researcher also, made rephrasing of some sentences in Arabic translation in both burden scale and psychological capital scale to become easier and more understandable for all studied caregivers.
- Content validity of tools was done by jury of ° experts in Psychiatric & Mental Health Nursing, who checked the relevancy, comprehensiveness, clarity and applicability of the questions. According to their opinions, modifications were done and the final form was developed.

#### Reliability of the tools:

Reliability of tools: The internal consistency of the tools was checked by Alpha Cronbach reliability analysis.

Tools	No.	Alpha	Indicator
	of	Cronbac	
	items	h	
knowledge of	١.	٠.٧٤٨	Strong
the studied			reliability
caregivers about			
ADHD			
The Zarit burden	77	·. ٧٨٩	strong
interview scale			reliability
Psychological	۲ ٤	٠.٩١٩	strong
capital			reliability
questionnaire			

#### **Ethical considerations:**

- An approval from the ethical committee from faculty of nursing, Benha University was obtained to conduct the study.
- The researcher assured voluntary participation for every selected caregiver involved in the sample and the purpose of the study was explained.
- A written consent was obtained from all the studied caregivers of children with ADHD after informing them about the purpose of the study and they were informed about their right to withdraw from the study at any time without giving any reason.
- Data confidentiality and caregiver's privacy were secured throughout the study.

#### A pilot study:

- Before starting data collection, a pilot study was conducted to assess the clarity and applicability of the study tools and identify the time needed to fill each tool. It was carried out on ''.' of the study subjects, ('caregivers of children with ADHD) who were excluded from the main study sample. After collecting pilot study, it was found that each caregiver took 'c-c' minutes to fulfill tools of the study.

#### Field work:

- Data collection of this study was carried out at the children outpatient clinics at Psychiatric and Mental Health Hospital and Addiction Treatment at Benha city, Qalubia governorate.
   A comfortable place was chosen for interviewing the studied caregivers.
- Each studied caregiver was interviewed individually to collect the necessary data in privacy using all study tools, (Sociodemographic data of the studied caregivers, socio- demographic and clinical data of the studied caregiver's children, knowledge of the studied caregivers about ADHD, zarit burden interview scale and psychological capital questionaire).
- Researcher began data collection by introducing herself to the studied caregivers and they were informed about their rights to withdraw from the study at any time.

The study tools were collected \(^\text{days/week}\) (Monday & Thursday) at \(^\text{A.M.}\) to \(^\text{P.M.}\) while \(^\text{women}\) women were interviewed per day. Each interview lasted for \(^\text{c-1}\) minutes depending on the response of the interview.

#### **Statistical analysis:**

The collected data organized, tabulated and statistically analyzed using Statistical Package for Social Science (SPSS) version Yo for windows, running on IBM compatible computer. Descriptive statistics were applied (e.g. frequency, percentages, mean and standard deviation). Test of significance, qualitative variables were compared using Chi square test, quantitative variables were compared using paired t test. Correlation coefficient test (r) was used to test the correlation between studied variables. Linear regression model was used to analysis of the of knowledge, predictors burden psychological capital among caregivers of children with ADHD. Reliability of the study tools was done using Cronbach's Alpha. Significance levels were considered as follows:

- Highly statistically significant  $P < \cdots > **$
- Statistically significant  $P < \cdot \cdot \cdot \circ *$
- Not significant  $P \ge \cdots \circ$

#### **Results:**

**Table** (1): Shows that, more than three quarters of the studied caregivers ( $\forall \land . \checkmark . \checkmark$ ) are mothers, less than half of them ( $\xi \urcorner . \lor . \checkmark$ ) are between  $\Upsilon \cdot - \langle \xi \cdot \rangle$  years old, with Mean  $\pm SD$  age is  $\Upsilon \land . \lor \lor \bot \lor . \circ \xi$  years. Less than three quarters of them ( $\forall \cdot . \cdot \checkmark$ ) are married. Less than half of them ( $\xi \urcorner . \lor \checkmark$ ) have secondary education. Majority of them ( $\land \cdot . \cdot \checkmark$ ) aren't work. Majority of them ( $\land \cdot . \cdot \checkmark$ ) live at rural areas. Majority ( $\land \circ . \cdot \checkmark$ ) of them have  $\xi - \urcorner$  members and less than three quarters of the studied caregivers ( $\lor \lor . \lor \lor \lor \lor$ ) haven't enough income.

**Table (\*):** Shows that, more than half of the studied children ( $\circ \wedge$ .\*%) are between  $^{1}-<^{9}$  years old, and the Mean  $\pm$ SD age is  $^{\vee}.^{\wedge}\circ\pm^{\pm}.^{1}$  years. the Majority of them ( $^{\wedge}.^{\vee}$ %) are males. The vast majority of them ( $^{9}.^{\vee}$ %) have primary education. More than half of them ( $^{\circ}.^{\vee}$ %) are at governmental schools with integration classes and less than half of them ( $^{\circ}.^{\vee}$ %) are the first child.

**Table** ( $^{\circ}$ ): Illustrates that, less than three quarters of the studied children ( $^{\vee \pi}$ . $^{\pi}$ ?) have combined type (attention deficit hyperactivity disorder). More than half of the studied children ( $^{\circ}$ . $^{\vee}$ .) have family history (nearly two thirds of them ( $^{\circ}$ . $^{\circ}$ .) are second degree relatives). Less than half of them ( $^{\circ}$ . $^{\circ}$ .) sleep  $^{\circ}$ . A hours daily. Majority of them ( $^{\wedge}$ . $^{\vee}$ .) receive medications and behavioral treatment sessions and majority of them ( $^{\wedge}$ ). $^{\vee}$ .) receive health services from governmental health sector.

**Figure** (1) shows that, one quarter (11.11) of the studied caregivers who have satisfactory level of total knowledge about ADHD

Figure (\*) Shows that, more than half of the studied caregivers (o^."%) experience moderate burden

**Figure (\*):** Shows that, the minority (۱۸.۳%) of the studied caregivers have high level of psychological capital

**Table** (\*): Shows that, there is highly statistically significant negative correlation between total burden and total knowledge and total psychological capital mean scores among caregivers of children with ADHD.

**Table (1):** percentage distribution of the studied caregivers according to their socio-demographic data (n=1).

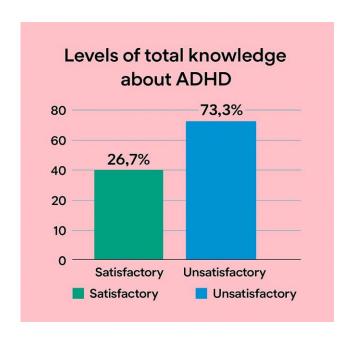
data (n=11).				
Socio-demographic data of	Studied caregivers			
the studied caregivers	(n= '\ ')	0/		
D 0 1 1	No	%		
Degree of relation	T			
Father	۳	0.4		
Mother	٤٧	٧٨.٣		
Brother	1	1.7		
Sister	۲	۳.۳		
Grandmother	٤	٦.٧		
Uncle	۲	۳.۳		
Aunt	١	١.٧		
Age (years)	1			
Y·-<"·	١٦	77.7		
Ψ•-<έ•	۲۸	£7.V		
٤٠-<٥٠	17	۲٠.٠ ٦.٦		
<u>&gt;</u> 0.	٤	٦.٦		
Mean $\pm$ SD $\forall \land . \lor \lor \pm \lor . \circ \checkmark$				
Marital status				
Single	٣	٥.٠		
Married	٤٢	٧٠.٠		
Widowed	٧	11.7		
Divorced	٨	18.8		
Education level				
Illiterate	٣	٥.٠		
Read and write	٤	٦.٦		
Primary education	٣	0.		
Preparatory education	٩	10.		
Secondary	۲۸	£7.V		
education/Diploma				
High education	١٣	۲۱.۷		
Occupation				
Working	17	۲۰.۰		
Not working	٤٨	۸٠.٠		
If the answer is "working", v	vhat is the	e type of work?		
(n= \ \ \ )				
Employee at governmental	٦	٥٠.٠		
sector				
Employee at private sector	٤	TT.T		
Free work	۲	١٦.٧		
Residence				
Rural	٥,	۸۳.۳		
Urban	١.	17.7		
Number of family members				
۳ members	٣	٥.٠		
٤-٦ members	٥١	۸٥.٠		
More than (\( \) members	٦	1		
Family income	-			
Not enough	٤٣	٧١.٧		
Enough	١٣	۲۱.۷		
Enough and can be saved	٤	٦.٦		

**Table (^{4}):** Percentage distribution of sociodemographic data among the studied children ( $n=^{4}$ .).

	G4 1º	1 1 11 1	
Socio-demographic data of the studied children	Studied children (n=\(\cdot\)		
the studied children	No.	%	
Age (years)	1,00	, 0	
7-<9	40	٥٨.٣	
9-<17	19	<b>71.</b> V	
17-<10	٤	٦.٧	
10_14	۲	٣.٣	
Mean ± SD √.^	0±1.77	l	
Sex			
Male	Male £9		
Female	11	١٨.٣	
Education level		,	
Primary education	٥٤	٩٠.٠	
Preparatory education	٤	٦.٧	
Secondaryeducation/	۲	٣.٣	
Diploma			
Type of school that the child	attends		
Governmental schools	19	٣١.٧	
Private schools	٤	٦.٦	
Governmental schools with	٣٤	٥٦.٧	
integration classes			
Experimental schools	٣	٥.٠	
Child birth order			
First child	7 £	٤٠.٠	
Second child	١٣	۲۱.۷	
Third or more	77	٣٨.٣	

**Table** ( $^{r}$ ): Percentage distribution of the clinical data among the studied children ( $n=^{r}$ ).

Clinical data of the studied children	Studied children (n=\(\cdot\)			
cinuren	No.	_ (		
Type of attention deficit hyper				
Predominantly	activity u	111111111111111111111111111111111111111		
inattentive type	<b>'</b>	, , , ,		
Predominantly	٩	10.		
hyperactive / impulsive		,		
type				
Combined type	٤٤	٧٣.٣		
Is there a family history for th		-		
Yes	T1	01.7		
No	79	٤٨.٣		
If the answer is "yes", what is	the degree	-		
relationship? (n=\(\mathbb{7}\))	me degre	c or		
First degree relatives	111	<b>70.0</b>		
Second degree relatives	۲.	75.0		
Number of sleep hours	' '	,		
< \( \text{hours} \)	٤	٦.٧		
r - < γ hours	77	٤٥.٠		
¬ - < ∧ hours	79	٤٨.٣		
Type of treatment the child red		•		
Medications only	11	١٨.٣		
Behavioral treatment		• • •		
only		•		
Both medication and	٤٩	۸۱.۷		
behavioral treatment		•		
Number of treatment sessions per week (n= <sup>£ 9</sup> )				
Once	۲٦	07.1		
Twice	۲۱	٤٢.٩		
Three times	۲	٤٠٠		
Source of health services for family				
Governmental health	£ 9	۸۱.۷		
sector				
Private health sector	•	٠.٠		
More than one source	11	11.5		



**Figure** (1): Levels of caregivers' knowledge about ADHD pre and post implementation of psycho-educational nursing program (**n**=1.).

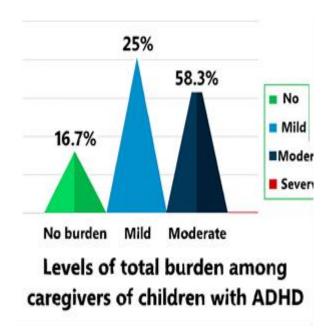
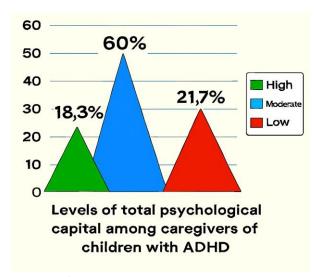


Figure ( $^{\dagger}$ ): Levels of burden among caregivers of children with ADHD pre and post implementation of psycho-educational nursing program ( $\mathbf{n}=^{\dagger}$ .



**Figure** (\*): Percentage distribution of total level of caregivers' psychological capital among caregivers of children with ADHD (n=1.).

**Table** ( $\pm$ ): Correlations between total knowledge about ADHD, total burden and total psychological capital mean scores among the studied caregivers (n=1).

Variables		Total knowledge score	Total psychological capital score
Total	R		٠.٦٨٩
knowledge score	p		• . • • **
Total	R	-•.77٤-	910_
burden score	p	• . • • **	*. * * * **

#### **Discussion:**

Data emerging from the present study showed that, less than half of the studied caregivers are aged \(\tau.-<\xi\) years, and the Mean \(\pm SD\) of age is \(\tau.\tau.\tau\)\(\pm \). \(\pi\) years. From researchers' point of view this might be due to more than three quarters of the studied caregivers are mothers and less than three quarters of them are married at this study and less than three quarters of them are married most of mothers has children at school age and the most common age of marriage in Egypt is \(\tau\) years so that the age of \(\tau\) and more is the logical ages of parents have school age children.

Regarding educational level, less than half of the studied caregivers have secondary education. From researchers' point of view these results could be due to the sample taken from governmental hospital which serves many rural areas and according to rural culture many girls didn't have the interest to reach high level of education as secondary education may be seen as the most attainable level of education for girls.

The present study results illustrated that the majority of the studied caregivers weren't work from researchers' point of view these results could be due to an increased percentage of unemployment in rural areas and mothers preferred housework rather than employment. Furthermore, As regard to family income, less than three quarters of the studied caregivers mentioned that, their income is not enough this due to the child with ADHD has special needs and their medication ae expensive and the hospital doesn't provide all the necessary medication for the ADHD children All of this contributes to not having enough income, especially in the case of increasing in their daily living finance and the cost of treatment and followup for their children.

Concerning to caregivers residence, the present study results illustrated that the majority of the studied caregivers live at rural areas. From researchers' point of view these results could be due to the sample taken from governmental hospital which serves many rural areas. Moreover, the results of the present study reveals that, the majority of the studied caregivers consist of ٤-٦ members and more than three quarters of the studied caregivers are mothers this may be due to that Egyptian family culture that, mothers have more responsibility compared to fathers in caring for children with ADHD; have more interactions with health-care providers, teachers, and school staff.

Regarding socio-demographic data of ADHD children, the current study reveal

that, more than half of the studied children are aged \(\frac{1}{-<}\) years with the Mean \(\pm SD\) of age is V. Ao±٤.77 years this may be due to that most of children diagnosed with ADHD when go to school when ask him to keep calm and give attention for their studying and this the time that physician need obtain information from at least 7 places (home & school) to diagnose the disease. The results of this study was in accordance with a study conducted by Hamed, ( Y . Y Y ). Which entitled (The Effect of Behavioral Training Program on Stress among Parents of Children with Attention Deficit Hyperactivity Disorder) and revealed that the mean age of the studied Children was Y. TT+1.9Y.

Regarding sex, the majority of them are male from researcher point of view may be due to that the prevalence rate of ADHD most common at males more than females especially the most common type affect the studied children is the combined type attention deficit hyperactivity disorder also may be because hormonal changes between two sexes. Hormonal influences on the organization of behavior place males at greater risk for early developing disruptive behavioral disorders, so males tend to exhibit hallmark symptoms of hyperactivity

As regard to educational level, the vast majority of the studied caregivers have primary education from the researcher point of view may be due to that more than half of the studied children are aged 7-<9 years this is the age of primary education. As well as, more than half of them are at governmental schools with integration classes this may be due to that the academic achievement of those children become poor due to their poor performance and attitude make the school need to join them to integration classes for enhancement their academic achievement.

Furthermore, the results of the present study reveal that less than half of the studied children are the first child from the researcher point of view this may be due to that higher prevalence was reported in the first child birth order may be attributed to increased risk of complicated pregnancy in primigravida and the lack of experience of mothers to deal with the first baby while on the second or third child she become have enough experience and doesn't need to go to the clinic much.

Regarding clinical data of ADHD children the current study reveal that less than three quarters of the studied children have combined type (attention deficit and hyperactivity). This may be due to that the combined type is the most prevalent type affect children especially males. As regard to family history, more than half of the studied children have family history in which less than two thirds of them are second degree relatives. From researcher point of view may be due to that the most dangerous risk factor of the disease is the genetic factor which plays an important role in causing the disease.

Regarding to sleeping hours, less than half of the studied children sleep  $^{7}$  <  $^{h}$  hours daily hours this may be due to that they take medication prescribed for them regularly and effect of of medication make the child calm and sleep at least hours. As well as, the majority of them receive medications and behavioral treatment sessions. Furthermore, the majority of them receive health services for family from governmental health sector from researcher point of view this may be due to that governmental hospital which give health support considered the appropriate place for ADHD children for receive treatment and follow up and most of the services in addition to this its necessary because most of schools need documented governmental reports about the child with ADHD before enrolling to it.

Regarding total levels of caregivers knowledge about ADHD, these present result clarified that, three quarter of the studied caregivers who have unsatisfactory level of total knowledge about ADHD. these results

may be attributed to many caregivers didn't have enough knowledge about the definition, symptoms, stimulant drugs, its effect and actions when dealing with ADHD child. This knowledge gab because of caregivers with ADHD children may not receive accurate information from schools, healthcare providers, or media and ADHD often misunderstood as a bad behavior and misdiagnosed, especially in rural areas where mental health education is lacking. pediatric psychiatric Furthermore and services may not prioritize parental education during diagnosis or treatment and also mental health stigma can discourage families from seeking help or discussing behavioral concerns.

The current study result in was accordance with the study of Hussein, (Y·Y) which entitled (Assessment of mothers knowledge and practice regarding care for their children with attention deficit hyperactivity disorder) and reported that The majority of the studied mothers had unsatisfactory total score level of knowledge about ADHD. In contrast, this present result was congruent with the study of Alhefdhi et al., (Y.Y) which entitled (Exploring quality of life, discrimination, and knowledge of parents of ADHD children in Saudi Arabia: A cross-sectional study) and revealed that, a significant portion of the parents with ADHD children believed that they don't have satisfactory information about ADHD.

Regarding the total level of burden among the studied caregivers, the current results illustrates that, more than half of the studied caregivers experienced moderate burden. From researcher point of view before program implementation this could be due to that most of the studied caregivers has unsatisfactory knowledge level and frequent behavioral issues of their children like impulsivity and inattention that can lead to negative school interactions, such as repeated calls or meetings about the child's behavior,

limited opportunities for enjoyment due to fear of meltdowns or conflict because of any comments about the child behavior.

Moreover, the result of this study was in the same line with the study of Abdelwahab et al ., (۲.72) which entitled (Relation between care burden, parenting style and resilience among caregivers of children with attention deficit hyperactivity disorder) that revealed that nearly three quarter of caregivers had moderate burden. In addition, this result was parallel with a study done by De-Lorient et al (Y.YY) which entitled (Relationship between sociodemographic factors and caregiver burden among mothers of elementary school students with ADHD symptoms in Surabaya: a cross-sectional study) and revealed that more than one third thirds had moderate burden.

Regarding total psychological capital level among the studied caregivers the minority of the studied caregivers have high psychological capital. of researcher point of view before program implementation, these results could be due to that caregivers had reduced self-efficacy stemming from repeated parenting struggles and perceived failure to manage the child's behavior effectively, also may feel judged or misunderstood by others, leading withdrawal from social networks, financial pressure and limits access to support services. In addition to this the child's behavioral challenges increase parental burden, which in turn reduces psychological capital, making it harder to cope creating a vicious cycle that can be difficult to break.

This present results were agreed with a study conducted by **Haddad et al.**, ( \* • \* \* \* \*) who conducted a study entitled (Comparison of Parenting Stress and Psychological Capital of the Parents of Children with Attention Deficit/hyperactivity, Oppositional Defiant Disorder and Typically Development Children) revealed that showcased lower levels of psychological capital compared to parents of typically developing children and

those with Attention Deficit/Hyperactivity Disorder (ADHD).

Concerning correlations between total knowledge about ADHD and total psychological capital mean scores among the studied caregivers, there is highly statistically significant negative correlation between total burden and total knowledge and total psychological capital mean scores among caregivers of children with ADHD

From researcher point of view, caregivers who had poor knowledge about ADHD had moderate level of psychological capital, this could be due to caregivers had lower ADHD knowledge due to lack of education and awareness that result in have lower psychological capital because they felt less confident, hopelessness and become not emotionally prepared for caring their child. This results were supported by Susmarini, & Shin, ( \* · \* \*) who conducted a study entitled (Family resilience and caregiver's well-being across different age groups of children with ADHD in the United States) and revealed that there was highly statistical significant negative correlation among the studied variables.

Finally, it can be said that there is a great relationship between feeling of burden and psychological capital among the studied caregivers. So, we can say that when feeling of burden increased psychological capital is decreased among caregivers of children with ADHD.

#### **Conclusion:**

### Based on the results of the present study, the following conclusions were formulated:

there is a great relationship between feeling of burden and psychological capital among the studied caregivers. as three quarter of the studied caregivers who have unsatisfactory level of total knowledge about ADHD and more than half of the studied caregivers experienced moderate burden Also, the minority of the studied caregivers have high level of psychological capital. Also, there was a highly statistically significant negative correlation between between total burden and total knowledge and total psychological capital mean scores among caregivers of children with ADHD.

#### **Recommendations:**

## Based on the findings and conclusion of this present study, the following recommendations are suggested:

- Implementation of educational programs about ADHD focused on building psychological capital (e.g., hope therapy, resilience training, mindfulness-based stress reduction). all children outpatient clinics for better understanding of the disease.
- Provide workshops and coaching for caregivers to strengthen self-efficacy, optimism, and goal-setting skills.
- Application of the study using a larger sample in different correlational settings to generalize the results.
- Offer accessible counseling services or peer support groups to reduce emotional distress and prevent burnout.

#### **References:**

Abdelwahab, A. A., Sayed, Y. M., & Mohamed, S. R. ( \* \* \* \* \*). Relation between care burden, parenting style and resilience among caregivers of children with attention deficit hyperactivity disorder. Tanta Scientific Nursing Journal, \*\*\*('), £ £ - 7.7.

- Aliye, K., Tesfaye, E., & Soboka, M. ( \* \* \* \* \* \*).

  High rate of attention deficit hyperactivity disorder among children \( \) to \( \) years old in Southwest Ethiopia findings from a community-based study. Bio-Med-Central psychiatry, \( \) \(
- Alnakhli, Z., Almutari, S., & Al-Dubai, S. ( ' ' ' '). Assessment of burden on caregivers of children with attention deficit hyperactivity disorder in Al-Madinah, Saudi Arábia. International Journal of Medical Research & Health Sciences, (11), 11-14.
- **De-Lorient, S. R., Setiawati, Y., Hidayati, H. B.,** & Rejeki, P. S. ( $\gamma \cdot \gamma \gamma$ ). Relationship between sociodemographic factors and caregiver burden among mothers of elementary school students with ADHD symptoms in Surabaya: a cross-sectional study. Age, A(9),  $Y \cdot y \cdot y \cdot z$
- Haddad K, S., Hossein K, A., & Abolghasemi, A.

  ( \* \* \* \*). Comparison of Parenting Stress and Psychological Capital of the Parents of Children with Attention Deficit/hyperactivity, Oppositional Defiant Disorder and Typically Development Children. Psychology of Exceptional Individuals, 1 \* (° \*), \* \* \* ° \* \* \* \*.
- Hamed, A. E. D. M. ( \*\* \* \*\*). The Effect of Behavioral Training Program on Stress among Parents of Children with Attention Deficit Hyperactivity Disorder. Helwan International Journal for Nursing Research and Practice, \*(\*), \* \*\*).
- Hussein, S. H. ( \* \* 5). Assessment of mothers knowledge and practice regarding care for

- their children with attention deficit hyperactivity disorder. *Helwan International Journal for Nursing Research and Practice*, r(3), 100-11A.
- Luthans, F., Avolio, B., Avey, J., & Norman, S. ( \*\* · \* \*). Positive psychological capital: Measurement and relationship with performance and satisfaction. Personnel psychology, 7 · (\*\*), ° § 1 ° V \*.
- Peñuelas-Calvo, I., Palomar-Ciria, N., Porras-Segovia, A., Miguélez-Fernández, C., Baltasar-Tello, I., Perez-Colmenero, S., & Baca-García, E. ( \* \* \* \* \* \*). Impact of ADHD symptoms on family functioning, family burden and parents' quality of life in a hospital area in Spain. The European Journal of Psychiatry, \* \* (\*), \* \* \forall \forall
- Samanta, A., Das, S., & Nath, S. ( , , , ). Quality of life, Perceived Stress, Coping and Burden among caregivers of Behavioral Disorder Children: A Narrative Review.

  Malaysian Journal of Medicine & Health Sciences, \( \lambda(\tau), \tau \gamma\_-\tau
- Sarwar, F., Panatik, A., Jameel, T., Wan, A., & Muhamad, N. ( '' ' '). Psychological capital, social support and wellbeing in mothers of children with autism spectrum disorder. Sage Open Journals, ''(').
  - Susmarini, D., & Shin, H. ( \*\* \*\*\*). Family resilience and caregiver's well-being across different age groups of children with ADHD in the United States: a cross-sectional study. Child Health Nursing Research, \*\*\*(\*), \*\*\!\!\!\!\!\!\!\!\.
- Thompson, K. (۲۰۱۲). Sampling' rd ed, John Wiley & Sons, (Vol. ۲۰۰), pog-7.

- Walter, O., & Liran, B. ( \*\* \* \*\*). Mediating role of psychological capital in relations between social support and subjective wellbeing among students with learning disabilities and attention deficit hyperactivity disorder. European Journal of Special Needs Education, \*\*Y(\(\gamma\)), \(\cdot\cdot\cdot\cdot\cdot\)?
- Wang, H., Kin, T., & Siu, O. ( \*\*\*\*). How does psychological capital lead to better well-being for students? The roles of family support and problem-focused coping. Current Psychology, 1-17.
- Younis, E., Shalaby, S., & Abdo, S. ( \* \* \* \* \* \*).

  Screening of attention deficit hyperactivity disorder among preschool children Gharbia Governorate, Egypt. (BMC) Bio-Med-Central psychiatry, \* \* \*(\*), \* ! ! \*.
- Zarit, H., Orr, K., & Zarit, M. (1946). The hidden victims of Alzheimer's disease: Families under stress. New York: New York University Press.