بسم الله الرحمن الرحيم

MONA MAGHRABY

شبكة المعلومات الجامعية

التوثيق الالكتروني والميكروفيلم

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MONA MAGHRABY

Impact of Caffeine on Attention Deficit Hyperactivity Disorder

Thesis

Submitted for Fulfillment of Ph D Degree in Childhood Studies

Department of Medical studies for children

(Special Needs Children)

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عنوان الرسالة : تأثير الكافيين على اضطراب فرط النشاط ونقص الانتباه

اسم الطالبة : سمر كمال عبد الخالق

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ABSTRACT

Background: Attention deficit hyperactivity disorder (ADHD) is now one of the most common children's mental health conditions. It involves symptoms of inattention or impulsivity and hyperactivity that lead to behavioral impairments. Caffeine is considered a stimulant. It stimulates the body's central nervous system, and boosts the brain's production of dopamine, which controls the ability to focus and maintain concentration. This stimulation can cause a person to feel energized and not to feel the effects of fatigue as strongly. Caffeine effective in calming ADHD children helps them focus and stay on task. **Aim of the study**: To assess the correlation between the combining effect of caffeine and stimulant drugs and effect of stimulant drugs alone. **Methods:** Prospective Intervention study with clinical trial, (100) ADHD child (50 male and 50 female) as study group and same numbers as control group on stimulant drugs aged from (6 to 11) years, were subjected to battery of assessment that includes IQ assessment**,** Conner's rating scales for parent and teacher for assessment of child behavior and El Behairy's scales for ADHD. Then enrollment of children in caffeine regimen schedule, Reassessment after (6) months for the entire study group by the same scales used before. **Results:** By combining effect of caffeine and stimulant there was higher main level of IQ with (0.4%) increase in males and (0.1%) increase in females, and (0.3%) increase according to teacher score in males and (1.3%) in

females, and higher main level of parents score with (5.1%) increase in males and (0.9%) in females. **Conclusion:** Caffeine is effective as an adjuvant treatment and improving ADHD symptoms when combined with stimulant drugs.

Keywords: ADHD, Caffeine, Elbehairy's Rating Scales, Conner

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