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ABSTRACT BOOK

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Nutritional State and Neurocognitive Performance of Early Female Adolescents

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Background: Nutrition is crucial for cognitive development and female adolescents are metilionally vulnerable due to specific reasons as onset of menarche, higher requirement arowth, changes in eating pattern, life style, and risk taking behaviors.

Phinctive: To determine the association of nutritional status with neurocognitive functions **Party** female adolescents.

Whods: Cross - sectional school based study was conducted on female adolescents [1] 14 years, n = 200). Weight, height, waist and hip circumference were measured to was protein energy nutritional status. Tricep, bicep and subcapsular skin fold thickness [1]) were measured to assess fat mass. Neurocognitive function was assessed with [1]) were measured to assess fat mass. Neurocognitive function was assessed with [1]) and computerized executive function tasks. Data were analyzed by comparison of [1] and computerized executive function tasks. Data were analyzed by comparison of [1] and power way ANOVA.

With: The nutritional categories of the sample were, normal growth (N) (29.5%), **With:** Weight (UW) (62.5 %) and overweight (OW) (8%). Mean Processing Speed Index **With:** was significantly differed between normal 99.60(SD ±12.0) and overweight groups **With:** SD ± 41.7) (p<0.01). Mean Working Memory Index (WMI) of normal, underweight werweight group were 104.02 (SD ±12.0), 85.40 (SD ± 9.73) 92.75(SD ±11.24) **With:** (p<0.01). Abstract reasoning and executive function (inhibition and visuo spatial **With:** (p<0.01). Abstract reasoning and executive function (inhibition and visuo spatial **With:** (p<0.05).

Figure loctor for reduced working memory performances of female adolescents. Matured The factor for reduced working memory performances of female adolescents. Matured The pathways in early delayed adolescence may contribute to the results observed in population.