Document Type Document Title	: Thesis : <u>Serum 25-hydroxyvitamin D level in male school children in Jeddah</u> مستوى ٢٥ هيدروكسي فيتامين د المصلي لدى أطفال المدارس الذكور في جدة
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Abstract	: Humans vitamin D is obtained from two sources, 1) via daily consumed diets, 2) through cutaneous synthesis in the presence of ultraviolet light supplied by sunlight or other ultraviolet B light. The importance of vitamin D levels in adolescence and adults are very critical to the health of bone, therefore the relationship between vitamin D level and micro mineral such as $(Ca+2, P+3, Mg+2, Fe+2)$ and the habitual foods intakes are investigated in this study. To achieve this target 102 boys and 75 girls has been recruited in this investigation. Blood sample were collected from those subjects and the following measurement has been taking place for each sample, a) determination of vitamin D level, b) determination of micro mineral status and c) collect data by FFQ to investigate the daily diets any intake according to the pyramid food guide to find out the link between consumption of different food and vitamin D level in those subjects. The findings results obtained from this study have shown that the level of vitamin D in boys are ranged between ( $1.45 - 82.84 \text{ nmol/L}$ ) which indicated that some subjects are lower than the normal range ( $22.46 - 93.84 \text{ nmol/L}$ ), whereas the level of vitamin D in the girls ranged between ( $6.9 - 88.7 \text{ nmol/L}$ ) which indicated again that some subjects are much lower than the normal range. The analysis of micro minerals results revealed that the level of $Ca2+$ in the boys ranged between ( $0.69 - 2.57 \text{ mmol/L}$ ) whereas in girls the range is between ( $1.21 - 53.44 \text{ umol/L}$ ) (normal is $10.6 - 28.3 \text{ nmol/L}$ ) whereas in girls the range is between ( $1.21 - 53.44 \text{ umol/L}$ ) (normal $6.6 - 26.0 \text{ umol/L}$ ) whereas in girls the range is between ( $0.55 - 1.65 \text{ mmol/L}$ ) whereas the girls between ( $0.80 - 1.8 \text{ mmol/L}$ ) except one case which has very high level ( $6.3 \text{ mmol/L}$ ), whereas the girls between ( $0.80 - 1.8 \text{ mmol/L}$ ) which andicated they are lower than the normal range ( $0.55 - 1.65 \text{ mmol/L}$ ), whereas in girls are ranged between ( $0.65 - 0.97  $

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