

## OBESITY, INSULIN RESISTANCE AND VITAMIN D DEFICIENCY MAY BE REVERSIBLE RISK FACTORS FOR THYROID CANCER

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**Background:** The incidence of thyroid cancer has been rising significantly over the past few decades; insulin resistance (IR), obesity and vitamin D deficiency (VDD) are found to be associated with many cancer types, this paper introduces a review for papers done in this field to show the association between IR, obesity, and VDD as reversible risk factors for thyroid cancer.

**Methods:** This paper was designed to review the previous studies in this field to evaluate the possible association between IR, obesity, VDD and thyroid cancer, possible mechanisms and the clinical applications.

**Conclusion:** Obesity, IR, and VDD are proved to be implicated in thyroid cancer incidence, but their relation to thyroid cancer aggressiveness is still controversial, and whether vitamin D3 supplementation, physical activity, drugs that decrease insulin resistance and diet may affect thyroid cancer prognosis and incidence is still raw area for more researches



### Biography

Marwa Sayed Abdel Latif has graduated from Cairo University in 2005 with an excellent grade, finished his Master's degree in Internal Medicine in 2010, his thesis was on insulin resistance as a predictor of response to rapid virological response in interferon based therapy in HCV Infected patients. This article was introduced as oral presentation in 6<sup>th</sup> international journal of endocrinology and metabolism, Dallas 2016. He completed his MD theses in 2015 with his research article on diagnostic value of high resolution ultrasonography, FNAC and genetic mutation in diagnosing malignant thyroid nodules, and finishes my MD 11/2016, working as leacturer assistant in Internal medicine and endocrinology department, Cairo University.

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