

# 5<sup>th</sup> Asian Obesity Specialists & Endocrinologists Annual Meeting

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## Metabolic syndrome in the offspring: is adiponectine level play as a risk? Case report

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The significantly higher level of adiponectine in this case report was similar to what Anwar et al found in his research on 2015 which stated that adiponectine level was significantly higher in woman of diabetic offspring (compare to man), but overall this result was contradictive with the general comprehension that adiponectin circulating level are inversely associated with insulin resistance.

Although being a product of the adipose tissue, adiponectine levels have been demonstrated to be decreased in obese individuals. This paradoxical situation is not fully explained but seems to be related to the effect of other adipokines, mainly tumor necrosis factor alpha (TNF- $\alpha$ ). Excessive body fat mass, primarily at the abdominal location, would induce an increase in TNF- $\alpha$  which down-regulates adiponectin synthesis by the adipocytes. This contradictory result was also in favor of Sandy et al, who found that despite identification of variants associated with adiponectin levels, a single nucleotide polymorphism (SNP) of ADIPOQ (which causing lower adiponectine level) revealed no association with Type 2 Diabetes Mellitus (T2DM) risk. So it is still unclear whether low adiponectin levels are truly causal for T2DM or rather a consequence.

### Biography

Tania Tedjo M is an internist, and now I am taking specialist trainee in the field of endocrinology metabolism, in Diponegoro University-Dr. Kariadi Hospital, Semarang, INDONESIA. I am working in the private hospital. The number of obesity and metabolic syndrome are now increasing rapidly in my country.

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