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Year :	2017-2018
Abstract	The Association between serum uric acid level and metabolic
	syndrome
	<u>Background:</u>
	Metabolic syndrome (MetS) is a constellation of interconnected
	biochemical, clinical, and metabolic factors that directly increases the risk
	of cardiovascular disease, type 2 diabetes mellitus, and all cause mortality.
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	Insulin resistance, visceral adiposity, atherogenic dyslipidemia, endothelial
	dysfunction, , hypercoagulable state, and chronic stress are the several
	factors which constitute the syndrome.
	Uric acid (UA) is the final product of purine nucleotide catabolism.
	the association of uric acid and MetS remains controversial given the high
	prevalence of MetS in the population
	Aim of the study:
	To determine the association between serum UA level and the number of
	components that contribute to the MetS, and which component was
	associated most with higher serum UA level.
	Subjects and Methods:
	A cross-sectional study conducted in the obesity unit of Al-kindy College
	of medicine. 76 female aged between 18-70 years were enrolled in this
	study who had three, four or five components of the MetS, which was
	defined according to the third report of the National Cholesterol Education
	Program Adult Treatment (NCEP) (Panel III). The height, weight, waist,

fasting blood sugar, blood pressure, serum TGs, HDL, and Serum UA were measured according to standardized protocol.

<u>Result:</u>

The prevalence of hyperuricemia among participants was 18 (23.68%). and DSP and a FBG, TG, Hyperuricemic patients had a higher mean WC, lower serum HDL level, the difference were statistically significant for WC, FBG and HDL (P=0.028, P=0.034, P=0.028 respectively). There is statistically significant positive correlation between serum UA and TG, WC and FBG while the correlation with serum HDL was significant negative correlation.

Conclusion:

Serum uric acid is clearly associated with the components of the MetS, considering the rising incidence of obesity and metabolic syndrome worldwide and the potential link to hyperuricemia, more emphasis should be put on the growing prevalence of hyperuricemia.

Supervisor Name & Signature Assist Prof Dr.Ekhlas Khalid Module Coordinator Prof Dr. Huda Adnan