

2nd International Conference and Expo on

Lipids: Metabolism, Nutrition & Health

October 03-05, 2016 Orlando, USA

Effects of *Prunus armeniaca* fruit on oxidative stress in fructose induced hyperuricemic rats

Cherryhan Salvedia Ebrahim Ahmed
Misr International University, Egypt

Prunus armeniaca, commonly called apricot, is grown widely. The Mediterranean region accounts for more than 55% of the world's production. However, little is known about their potential health benefits. Apricot is thought to be rich in antioxidants because of its flavonoids and carotenoids contents. The dominant sugar in fruit tissue was sucrose. Fructose is considered a factor for several adverse health effects, a stimulant of *de novo* lipogenesis and hepatic lipogenesis. Recently, the prevalence of metabolic syndrome has significantly and statistically increased in parallel with the increased contribution of fructose in our diets attributing more to the sweetened beverages. This study was conducted on 36 male albino rats over 10 weeks to study the antioxidant effect of the extract. 10% fructose solution was administered to two groups to induce hyperuricemia while a dose of 70 mg/kg/day of the extract were administered by oral gavage concurrently to one of the two groups. The fruit was purchased and an ethanol extract was obtained by sonication and evaporation at the pharmacognosy department of Cairo University. Results were compared with the control group supported by laboratory and histopathological findings. The extract group showed lower plasma TG, NO, creatinine and uric acid levels than the fructose group (p value<0.001). NO and creatinine were significantly higher than the control group (p value<0.001). Hence, it was concluded that the associating low NO and UA levels with the extract, supports its antioxidant and hypouricemic potentials.

Biography

Cherryhan Salvedia Ebrahim Ahmed has completed her MBBCh from Cairo University. She is currently an Academic Researcher at Misr International University (MIU). She completed her MSc in Physiology at the Ain Shams University, School of Medicine. She is a Clinical Nutritionist, obtained her Diploma from the National Nutrition Institute. She is a Medical Supervisor at Patient Welfare Department, a Coordinator at the E-learning Unit and has supervised 2nd year students for data collection of assigned researches, School of Dentistry, MIU. She is an American Heart Association Certified Instructor of Basic Life Support for Healthcare Professionals.

han.salvedia@gmail.com

Notes: