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Correlation of gum acacia with serum electrolytes among patients with stage 3 renal disease

Suad Yousif Abdalla Alkarib
University of Karary, Sudan

Introduction: Gum arabic acacia is a complex, loose aggregate of sugars and hemicelluloses composed of Arabic acid nucleus, it is found in nature and exists as a natural or slightly acidic calcium, magnesium, potassium or sodium salt of complex polysaccharide and the different metal ions present in gum arabic molecules, Chemically, it is an arabinogalactan protein complex composed by weight of 17-34% arabinose, 32-50% galactose, 11-16% rhamnose, 13-19% glucuronic acid and 1.8-2.5% protein. Serum electrolytes play specific roles in optimization of the blood pressure and hence the kidney functions.

Methodology: It is a randomized control trial study, it was performed using (14) volunteers with different blood pressure readings and different kidneys function with six months past history. Dose of 10,15,20 and 25 grams of gum dissolved in 250 ml drinking water to be taken at the morning, were used for a duration of 16-18 weeks with interval every four weeks for every dose. Blood samples were taken for electrolytes analysis first as a control and after every interval before starting the next dose and the blood pressure was read after every interval.

Results: The electrolytes levels showed biological rearrangement optimized referenced readings and hence the blood pressure both systolic and diastolic at a dose ranges 20-25 gm.

Conclusion: There is a significant correlation between Gum acacia and electrolytes control in blood serum and hence the blood pressure, this depends upon the different Gum components ratios.

Biography

Suad Yousif Abdalla Alkarib has completed her PhD from University of Khartoum, Sudan. She is the Founder of College of Pharmacy in Karary University. Earlier she was the Director General Manager for the "Wafrapharma Laboratories Ltd. for drug manufacturing. She is the Member of the Sudanese Medical Council, Scientific Researches committee in Gum Arabic Board, Sudan, Arab Administrative Development Organization (League of Arab States). She is the Rapporteur of the Industrial Pharmacy Committee in the Pan Arab Colleges of Pharmacy. She is the Member of the proposed fellowship in Technology of Industrial Pharmacy (Council of pharmaceutical specialties, Sudan). She has published more than 15 papers in different journals and conferences.

ombasil1@yahoo.com

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